DJ-560T/E

Service Manual

Index

ALINCO ELECTRONICS INC.

■ SPECIFICATIONS

■ General

Frequency Coverage ..... See MODEL CHART
Memory Channel ..... 42 Channels (VHF/UHF 20 Channels Each & Independent Call Channels)
Signal Type F3
Mic. Input Impedance 2kΩ
Speaker Impedance 8Ω
Power Supply Requirement ..... D.C. 7.2V
Dimensions ..... 169(H) × 57(W) × 32(D)mm (6.65 × 2.24 × 1.23 inch)
Weight ..... Approx. 440g (0.97 lbs.)

■ Transmitter

Output Power ..... See BATTERY PACK INFORMATION
Modulation System ..... Variable reactance Frequency modulation
Max. Freq. Deviation ..... ±5kHz
Spurious Emission ..... Less than 60dB below carrier
Tone Frequency ..... 67.0 to 250.3Hz — 38
DJ-560T — Subaudible Encoding Tone
DJ-560E — 1,750Hz Tone Burst
*CTCSS Decoder is included as standard
Operation Mode ..... Simplex,
Duplex: 5kHz Steps (Minimum) between 0 and 9.995MHz
from receive frequency
*DTMF Encoder is included as standard

■ Receiver

Receiving System ..... Double-conversion superheterodyne
Sensitivity ..... 12dB SINAD less than −15dBμ
Intermediate Frequencies ..... VHF 1st IF 55.05MHz
2nd IF 455kHz
UHF 1st IF 58.125MHz
2nd IF 485kHz

MODEL CHART

Type	DJ-560T	DJ-560E
Frequency Coverage (MHz)	VHF: 144.000 — 147.995(TX) 130.000 — 173.995(RX) UHF: 440.000 — 449.995(TX) 400.000 — 519.995(RX)	VHF: 144.000 — 145.995(TX)(RX) UHF: 430.000 — 439.995(TX)(RX)
Channel Spacing (kHz)	5, 10, 12.5, 20, and 25	5, 10, 12.5, 20, and 25
Tone Burst	Not Available	1,750Hz
Subaudible	Included (Encode & Decode)	Included (Encode & Decode)
DTMF	Included (16 Buttons)	Included (16 Buttons)

BATTERY PACK INFORMATION

Battery Pack	Voltage & Current	Output Power (TX) (Hi)	Operating Time	Selected Charger
EBP-10N (Standard)	7.2V 700mAh	2W	About 3hrs.	EDC-17 (A.C. 220/240V) EDC-21 (A.C. 120V)
EBP-12N (Optional)	12V 700mAh	5W	About 3hrs.	EDC-18 (A.C. 220/240V) EDC-22 (A.C. 120V)

Note: The conditions for the above operation time are High output power and the ratio of TX 1 : RX 1 : Waiting for RX 8. The operating time will be longer at Low output power.

■ PARTS LIST (DJ-560T/E)

CPU Unit

Ref. No.	Part Code	Part Name and Number
IC1	XA0139	IC, HD4074608H
IC2	XA0108	IC, FX365LG/TR -7 (M x 365LP)
IC3	XA0019	IC, μPD4094BG-T1
IC4	XA0019	IC, μPD4094BG-T1
IC5	XA0105	IC, MC145436DWR
IC6	XA0106	IC, S-8054HN-CB-T1
Q1	XT0038	Transistor, 2SA1037KT1146R
Q2	XT0077	Transistor, 2SC3326KT1146R
Q3	XU0022	Degital Transistor, DTA114EKT96
Q4	XU0012	Degital Transistor, DTC114EKT96
Q5	XU0012	Degital Transistor, DTC114EKT96
Q7	XU0012	Degital Transistor, DTC114EKT96
Q8	XT0038	Transistor, 2SA1037KT1146R
Q10	XU0022	Degital Transistor, DTA114EKT96
Q11	XU0012	Degital Transistor, DTC114EKT96
Q12	XT0037	Transistor, 2SC2412KT1146R
Q13	XT0037	Transistor, 2SC2412KT1146R
Q14	XT0038	Transistor, 2SA1037KT1146R
D1	XD0040	Diode, DAN202KT96
D2	XD0040	Diode, DAN202KT96
D3	XD0120	Shot Key, MA704WKTX
D4	XD0091	Diode, IMN10T108
D5	XD0040	Diode, DAN202KT96
D6	XD0120	Shot Key, MA704WKTX
D7	XD0040	Diode, DAN202KT96
D8	XD0040	Diode, DAN202KT96 (E only)
D9	XD0040	Diode, DAN202KT96 (T/TW only)
D11	XD0040	Diode, DAN202KT96
J1	RK3001	Chip R, MCR03 0Ω
R1	RK3050	Chip R, MCR03 10KΩ
R2	RK3038	Chip R, MCR03 1KΩ
R3	RK3056	Chip R, MCR03 33KΩ
R4	RK3046	Chip R, MCR03 4.7KΩ
R5	RK3046	Chip R, MCR03 4.7KΩ
R6	RK3046	Chip R, MCR03 4.7KΩ
R7	RK3050	Chip R, MCR03 10KΩ
R8	RK3050	Chip R, MCR03 10KΩ
R9	RK3050	Chip R, MCR03 10KΩ
R10	RK3038	Chip R, MCR03 1KΩ (T/TW only)
R10	RK3060	Chip R, MCR03 68KΩ (E only)
R12	RK3050	Chip R, MCR03 10KΩ
R13	RK3038	Chip R, MCR03 1KΩ
R15	RK3050	Chip R, MCR03 10KΩ
R16	RK3038	Chip R, MCR03 1KΩ
R17	RK3001	Chip R, MCR03 0Ω (E only)
R17	RK3050	Chip R, MCR03 10KΩ (T/TE/TW only)
R18	RK3073	Chip R, MCR03 820KΩ
R19	RK3074	Chip R, MCR03 1MΩ
R20	RK3046	Chip R, MCR03 4.7KΩ
R21	RK3058	Chip R, MCR03 47KΩ
R22	RK3074	Chip R, MCR03 1MΩ
R23	RK3062	Chip R, MCR03 100KΩ
R27	RK3062	Chip R, MCR03 100KΩ (T/TE/TW only)
R28	RK3074	Chip R, MCR03 1MΩ
R29	RK3038	Chip R, MCR03 1KΩ
R30	RK3038	Chip R, MCR03 1KΩ
R31	RK3038	Chip R, MCR03 1KΩ
R32	RK3038	Chip R, MCR03 1KΩ
R33	RK3058	Chip R, MCR03 47KΩ
R34	RK3074	Chip R, MCR03 1MΩ
R35	RK3044	Chip R, MCR03 3.3KΩ
R36	RK3044	Chip R, MCR03 3.3KΩ
R37	RK3044	Chip R, MCR03 3.3KΩ
R40	RK3074	Chip R, MCR03 1MΩ
R41	RK3054	Chip R, MCR03 22KΩ
R42	RK3034	Chip R, MCR03 470Ω
R43	RK3026	Chip R, MCR03 100Ω
R44	RK3050	Chip R, MCR03 10KΩ
R45	RK3046	Chip R, MCR03 4.7KΩ
R46	RK3046	Chip R, MCR03 4.7KΩ
R47	RK3042	Chip R, MCR03 2.2KΩ
R48	RK3038	Chip R, MCR03 1KΩ
R49	RK3038	Chip R, MCR03 1KΩ
R50	RK3066	Chip R, MCR03 220KΩ
R52	RK3064	Chip R, MCR03 150KΩ
C1	CS0236	Chip Tantal, TMC-M0J685MTR
C2	CU3035	Chip C, CM105W5R102K50VAT
C3	CS0057	Chip Tantal, TMC0J225TR
C4	CS0053	Chip Tantal, TMC0J476TR
C7	CU3052	Chip C, CM105W5R103K25VAT (T/TW only)
C8	CU3052	Chip C, CM105W5R103K25VAT (T/TW only)
C9	CS0049	Chip Tantal, TMC1C105TR
C10	CU3035	Chip C, CM105W5R102K50VAT
C11	CU8003	Chip C, C2012JF1E104Z
C12	CS0049	Chip Tantal, TMC1C105TR
C13	CU8003	Chip C, C2012JF1E104Z
C14	CU8003	Chip C, C2012JF1E104Z
C15	CU3058	Chip C, GR39CH221J50PT
C16	CU3058	Chip C, GR39CH221J50PT
C17	CS0049	Chip Tantal, TMC1C105TR
C18	CU8003	Chip C, C2012JF1E104Z
C19	CU3023	Chip C, CM105CH101K
C20	CU3023	Chip C, CM105CH101K
C21	CU3035	Chip C, CM105W5R102K50VAT
C22	CS0050	Chip Tantal, TMC1A475TR
C23	CU3035	Chip C, CM105W5R102K50VAT
C24	CU3031	Chip C, CM105W5R471K50VAT
C25	CU3035	Chip C, CM105W5R102K50VAT
C26	CU3035	Chip C, CM105W5R102K50VAT
C27	CU3052	Chip C, CM105W5R103K25VAT
C28	CU8003	Chip C, C2012JF1E104Z
C29	CU8003	Chip C, C2012JF1E104Z
C30	CU3052	Chip C, CM105W5R103K25VAT
C31	CU3031	Chip C, CM105W5R471K50VAT
C32	CU3052	Chip C, CM105W5R103K25VAT
C33	CU3035	Chip C, CM105W5R102K50VAT
C34	CU3035	Chip C, CM105W5R102K50VAT
C39	CU3035	Chip C, CM105W5R102K50VAT
C40	CU3035	Chip C, CM105W5R102K50VAT
C41	CU3035	Chip C, CM105W5R102K50VAT
C42	CU3035	Chip C, CM105W5R102K50VAT
C43	CS0063	Chip Tantal, TMC1V104TR
C44	CU8003	Chip C, C2012JF1E104Z
C45	CU3052	Chip C, CM105W5R103K25VAT
C46	CU3043	Chip C, CM105W5R472K50VAT (E only)
L1	QC0043	Chip L, NL322522T-2R2M
X1	XB0006	CSB1000J221
X2	XB0005	Ceramic Resonator, 800kHz
X4	XB0001	FAR, C4CA03580000K01R
	TS0049	CPU Front Shield
LP1	EP0005	Lamp, 23-BR-5V60
LP2	EP0005	Lamp, 23-BR-5V60
	EL0011	LCD
CN1	UE0103	B-B Housing, 52022-2810
	UP0177	CPU UNIT
	ST0023	LCD Flame
	DH0005	LCD Reflection Board
	FG0053	Rover Connector
	EY0003	Mic Unit
	ED0005	Lithium Battery
	YZ0058	Solderd Plating Cable 0.4Φ1mm
	TZ0024	Lithium Insulator
	TS0048	CPU Shield
	TS0045	IF Earth Hardware

IF Unit

IC1	XA0070	IC, MC3361DT
IC2	XA0070	IC, MC3361DT
IC3	XA0068	IC, M5218FP-T01-1
IC4	XA0111	IC, NJM2073M-T1
IC5	XA0019	IC, μPD4094BG-T1
IC6	XA0104	IC, M5236ML-T73A-36
D1	XD0118	Shot Key, MA716-TW
D2	XD0040	Diode, DAN202KT96
D3	XD0118	Shot Key, MA716-TW
D4	XD0040	Diode, DAN202KT96
D6	XD0118	Shot Key, MA716-TW
D7	XD0040	Diode, DAN202KT96
D8	XD0040	Diode, DAN202KT96
D10	XD0118	Shot Key, MA716-TW
D11	XD0041	Diode, DAP202KT96
D12	XD0104	Zenner, 02C26-2YTE85L
D13	XD0041	Diode, DAP202KT96
D14	XD0040	Diode, DAN202KT96
D15	XD0110	Diode, IN5551
D16	XD0041	Diode, DAP202KT96
D18	XD0118	Shot Key, MA716-TW
Q1	XT0081	Transistor, 2SC2714YTE85L
Q2	XT0037	Transistor, 2SC2412KT146R
Q3	XT0037	Transistor, 2SC2412KT146R
Q4	XU0026	Digital Transistor, FMG2XT98
Q5	XU0017	Digital Transistor, DTA114EKT146
Q6	XT0036	Transistor, 2SC2413KT146R
Q7	XT0036	Transistor, 2SC2413KT146R
Q9	XT0081	Transistor, 2SC2714YTE85L
Q10	XT0037	Transistor, 2SC2412KT146R
Q11	XT0037	Transistor, 2SC2412KT146R
Q12	XT0037	Transistor, 2SC2412KT146R
Q13	XT0036	Transistor, 2SC2413KT146R
Q14	XT0036	Transistor, 2SC2413KT146R
Q15	XU0017	Digital Transistor, DTA114EKT146
Q18	XT0088	Transistor, 2SA1213YTE12L
Q19	XT0037	Transistor, 2SC2412KT146R
Q20	XU0002	Digital Transistor, DTC114YKT146
Q21	XT0088	Transistor, 2SA1213YTE12L
Q22	XT0088	Transistor, 2SA1213YTE12L
Q23	XU0027	Digital Transistor, FMA7XT98
Q24	XU0026	Digital Transistor, FMG2XT98
Q26	XU0027	Digital Transistor, FMA7XT98
Q27	XU0017	Digital Transistor, DTA114EKT146
Q28	XT0037	Transistor, 2SC2412KT146R
Q29	XT0088	Transistor, 2SA1213YTE12L
Q30	XT0057	Transistor, 2SB1184F5T200Q
Q31	XU0002	Digital Transistor, DTC114YKT146
Q32	XU0002	Digital Transistor, DTC114YKT146
Q33	XU0002	Digital Transistor, DTC114YKT146
Q34	XU0012	Digital Transistor, DTC114EKT146
Q35	XU0012	Digital Transistor, DTC114EKT146
X1	XQ0041	UM-1 57.64MHz
X2	XQ0039	UM-1 54.595MHz
CF1	XC0005	Ceramic Filter, CFUM455E
CF2	XC0004	Ceramic Filter, CFWM485F
VR1	RV0014	VR, RK09722115R1211 (10KB×2)
VR2	RH0059	VR, MVR32H×BN223
VR4	RV0015	VR, RK0972210 (10KB×2)
VR5	RH0059	VR, MVR32H×BN223
VR7	RH0060	VR, MVR32H×BN473
VR8	RH0060	VR, MVR32H×BN473
VR9	RH0060	VR, MVR32H×BN473
	UR0005	Rotary Encoder, EC09P20-04L20
L1	QC0037	Chip L, NL322522TR68M
L2	QA0044	455kHz IF Coil-T
L3	QC0037	Chip L, NL322522TR68M
L4	QA0044	455kHz IF Coil-T
L5	QC0039	Chip L, NL322522T1R0M

Ref. No.	Part Code	Part Name and Number
JK3	UJ0019	Jack, HSJ1423-01-010
JK4	UJ0015	DC Jack, HEC1781-01-020
TH1	XS0007	Thermister, TD5-C230D
TH2	XS0007	Thermister, TD5-C230D
J1	RK3001	Chip R, MCR03 0Ω
J2	RK3001	Chip R, MCR03 0Ω
R1	RK3072	Chip R, MCR03 680KΩ
R2	RK3038	Chip R, MCR03 1KΩ
R3	RK3050	Chip R, MCR03 10KΩ
R4	RK3062	Chip R, MCR03 100KΩ
R6	RK3042	Chip R, MCR03 2.2KΩ
R7	RK3070	Chip R, MCR03 470KΩ
R8	RK3042	Chip R, MCR03 2.2KΩ
R9	RK3038	Chip R, MCR03 1KΩ
R10	RK3050	Chip R, MCR03 10KΩ
R11	RK3042	Chip R, MCR03 2.2KΩ
R12	RK3067	Chip R, MCR03 270KΩ
R13	RK3046	Chip R, MCR03 4.7KΩ
R14	RK3034	Chip R, MCR03 470Ω
R15	RK3050	Chip R, MCR03 10KΩ
R16	RK3058	Chip R, MCR03 47KΩ
R17	RK3022	Chip R, MCR03 47Ω
R18	RK3022	Chip R, MCR03 47Ω
R19	RK3050	Chip R, MCR03 10KΩ
R20	RK3046	Chip R, MCR03 4.7KΩ
R21	RK3050	Chip R, MCR03 10KΩ
R22	RK3054	Chip R, MCR03 22KΩ
R23	RK3050	Chip R, MCR03 10KΩ
R24	RK3022	Chip R, MCR03 47Ω
R25	RK3071	Chip R, MCR03 560KΩ
R26	RK3062	Chip R, MCR03 100KΩ
R27	RK3042	Chip R, MCR03 2.2KΩ
R28	RK3062	Chip R, MCR03 100KΩ
R29	RK3058	Chip R, MCR03 47KΩ
R30	RK3062	Chip R, MCR03 100KΩ
R31	RK3062	Chip R, MCR03 100KΩ
R32	RK3059	Chip R, MCR03 56KΩ
R33	RK3066	Chip R, MCR03 220KΩ
R35	RK3058	Chip R, MCR03 47KΩ
R36	RK3050	Chip R, MCR03 10KΩ
R37	RK3029	Chip R, MCR03 180Ω
R38	RK3067	Chip R, MCR03 270KΩ
R39	RK3065	Chip R, MCR03 180KΩ
R40	RK3050	Chip R, MCR03 10KΩ
R41	RK3058	Chip R, MCR03 47KΩ
R45	RK3058	Chip R, MCR03 47KΩ
R46	RK3044	Chip R, MCR03 3.3KΩ
R47	RK3058	Chip R, MCR03 47KΩ
R48	RK3050	Chip R, MCR03 10KΩ
R49	RK3062	Chip R, MCR03 100KΩ
R51	RK3042	Chip R, MCR03 2.2KΩ
R52	RK3070	Chip R, MCR03 470KΩ
R53	RK3042	Chip R, MCR03 2.2KΩ
R54	RK3038	Chip R, MCR03 1KΩ
R55	RK3058	Chip R, MCR03 47KΩ
R56	RK3042	Chip R, MCR03 2.2KΩ
R57	RK3050	Chip R, MCR03 10KΩ
R58	RK3067	Chip R, MCR03 270KΩ
R59	RK3046	Chip R, MCR03 4.7KΩ
R60	RK3034	Chip R, MCR03 470Ω
R61	RK3050	Chip R, MCR03 10KΩ
R62	RK3061	Chip R, MCR03 82KΩ (E only)
R63	RK3050	Chip R, MCR03 10KΩ
R64	RK3050	Chip R, MCR03 10KΩ
R65	RK3050	Chip R, MCR03 10KΩ
R66	RK3054	Chip R, MCR03 22KΩ
R67	RK3050	Chip R, MCR03 10KΩ
R68	RK3022	Chip R, MCR03 47Ω
R69	RK3071	Chip R, MCR03 560KΩ
R70	RK3062	Chip R, MCR03 100KΩ
R71	RK3042	Chip R, MCR03 2.2KΩ
R74	RK3046	Chip R, MCR03 4.7KΩ
R79	RK3046	Chip R, MCR03 4.7KΩ
R81	RK3046	Chip R, MCR03 4.7KΩ
R82	RK3062	Chip R, MCR03 100KΩ
R83	RK3062	Chip R, MCR03 100KΩ
R84	RK3058	Chip R, MCR03 47KΩ
R85	RK3072	Chip R, MCR03 2.2Ω
	RK3072	Chip R, MCR03 2.2Ω

Ref. No.	Part Code	Part Name and Number
R87	RK3050	Chip R, MCR03 10KΩ
R89	RK3042	Chip R, MCR03 2.2KΩ
R90	RK3042	Chip R, MCR03 2.2KΩ
R91	RK3022	Chip R, MCR03 47Ω
R92	RK3038	Chip R, MCR03 1KΩ
R93	RK3038	Chip R, MCR03 1KΩ
R94	RK3038	Chip R, MCR03 1KΩ
R95	RK3038	Chip R, MCR03 1KΩ
R96	RK3028	Chip R, MCR03 150Ω
R97	RK3028	Chip R, MCR03 150Ω
R98	RK3034	Chip R, MCR03 470Ω
R99	RK3038	Chip R, MCR03 1KΩ
R100	RK3034	Chip R, MCR03 470Ω
R101	RK3050	Chip R, MCR03 10KΩ
R102	RK3072	Chip R, MCR03 2.2Ω
R103	RK3029	Chip R, MCR03 180Ω
R104	RK3072	Chip R, MCR03 2.2Ω
R105	RK3066	Chip R, MCR03 220KΩ
R106	RK3066	Chip R, MCR03 220KΩ
R107	RK3046	Chip R, MCR03 4.7KΩ
R108	RK3044	Chip R, MCR03 3.3KΩ
R109	RK3050	Chip R, MCR03 10KΩ
R110	RK3053	Chip R, MCR03 150KΩ
R117	RK3038	Chip R, MCR03 1KΩ
R118	RK3058	Chip R, MCR03 47KΩ
R119	RK3058	Chip R, MCR03 47KΩ
R120	RK3026	Chip R, MCR03 100Ω
R121	RK3050	Chip R, MCR03 10KΩ
R122	RK3054	Chip R, MCR03 22KΩ
R123	RK3022	Chip R, MCR03 47Ω
R125	RK3050	Chip R, MCR03 10KΩ
R126	RK3050	Chip R, MCR03 10KΩ
R127	RK3072	Chip R, MCR03 2.2Ω
R128	RK3042	Chip R, MCR03 2.2KΩ
R129	RK3046	Chip R, MCR03 4.7KΩ
R130	RK3046	Chip R, MCR03 4.7KΩ
R131	RK3062	Chip R, MCR03 100KΩ
R132	RK3026	Chip R, MCR03 100Ω
C1	CU3052	Chip C, CM105W5R103K
C2	CU3052	Chip C, CM105W5R103K
C3	CU3059	Chip C, C2012Y1E104Z
C4	CU3059	Chip C, C2012Y1E104Z
C5	CU3052	Chip C, CM105W5R103K
C6	CU3059	Chip C, C2012Y1E104Z
C7	CU3052	Chip C, CM105W5R103K
C8	CU3026	Chip C, CM105CH181K
C9	CU3035	Chip C, CM105W5R102K
C10	CU3041	Chip C, CM105W5R332K
C11	CU3035	Chip C, CM105W5R102K
C12	CU3035	Chip C, CM105W5R102K
C13	CU3056	Chip C, CM105Y5V473Z
C14	CS0063	Chip Tantal, TMC1V104TR
C15	CU3054	Chip C, CM105W5R223K
C16	CU3059	Chip C, CM105Y5V104Z
C17	CS0050	Chip Tantal, TMC1A475TR
C18	CU3059	Chip C, C2012Y1E104Z
C19	CU3059	Chip C, CM105Y5V104Z
C20	CU3019	Chip C, CM105CH470K
C21	CU3011	Chip C, CM105CH100K
C22	CU3013	Chip C, CM105CH150K
C23	CU3035	Chip C, CM105W5R102K
C24	CS0057	Chip Tantal, TMC0J226TR
C25	CU3059	Chip C, C2012Y1E104Z
C26	CU3059	Chip C, C2012Y1E104Z
C27	CU3059	Chip C, C2012Y1E104Z
C28	CU3060	Chip C, CM105CH221K
C29	CU3059	Chip C, C2012Y1E104Z
C30	CU3019	Chip C, CM105CH470K
C31	CU3035	Chip C, CM105W5R102K
C32	CU3035	Chip C, CM105W5R102K
C33	CU3059	Chip C, CM105Y5V104Z
C34	CU3023	Chip C, CM105CH101K
C35	CU3024	Chip C, CM105CH121K
C36	CU3035	Chip C, CM105W5R102K
C37	CU3035	Chip C, CM105W5R102K
C38	CU3059	Chip C, C2012Y1E104Z
C39	CU3031	Chip C, CM105W5R471K
C40	CU3031	Chip C, CM105W5R471K
C41	CS0069	Chip Tantal, TMC1V154TR
C42	CS0049	Chip Tantal, TMC1C105TR
C43	CS0209	Chip Tantal, TMCM0J106MTRB
C44	CS0209	Chip Tantal, TMCM0J106MTRB

Ref. No.	Part Code	Part Name and Number
C45	CU3043	Chip C, CM105W5R472K
C46	CU3019	Chip C, CM105CH470K
C50	CU3052	Chip C, CM105W5R103K
C51	CU3059	Chip C, C2012Y1E104Z
C52	CU3052	Chip C, CM105W5R103K
C53	CU3052	Chip C, CM105W5R103K
C54	CU3059	Chip C, C2012Y1E104Z
C55	CU3059	Chip C, C2012Y1E104Z
C56	CU3052	Chip C, CM105W5R103K
C57	CU3026	Chip C, CM105CH181K
C57	CU3026	Chip C, CM105CH181K
C58	CU3035	Chip C, CM105W5R102K
C59	CU3041	Chip C, CM105W5R332K
C60	CU3035	Chip C, CM105W5R102K
C61	CU3035	Chip C, CM105W5R102K
C62	CU3023	Chip C, CM105CH101K
C63	CS0063	Chip Tantal, TMC1V104TR
C64	CU3054	Chip C, CM105W5R223K
C65	CU3059	Chip C, CM105Y5V104Z
C66	CS0050	Chip Tantal, TMC1A475TR
C67	CU3056	Chip C, CM105Y5V473Z
C68	CU3006	Chip C, CM105CH050C
C69	CU3019	Chip C, CM105CH470K
C70	CU3013	Chip C, CM105CH150K
C71	CU3059	Chip C, C2012Y1E104Z
C72	CS0057	Chip Tantal, TMC0J226TR
C73	CU3059	Chip C, C2012Y1E104Z
C74	CU3059	Chip C, C2012Y1E104Z
C75	CU3060	Chip C, CM105CH221K
C76	CU3059	Chip C, C2012Y1E104Z
C77	CU3019	Chip C, CM105CH470K
C78	CU3035	Chip C, CM105W5R102K
C79	CU3035	Chip C, CM105W5R102K
C81	CU3059	Chip C, CM105Y5V104Z
C85	CS0050	Chip Tantal, TMC1A475TR
C86	CS0050	Chip Tantal, TMC1A475TR
C87	CU3059	Chip C, C2012Y1E104Z
C88	CE0315	Elect Cap, 6CV47B
C89	CU3059	Chip C, C2012Y1E104Z
C90	CE0315	Elect Cap, 6CV47B
C91	CU3059	Chip C, C2012Y1E104Z
C92	CS0053	Chip Tantal, TMC0J476TR
C93	CU3031	Chip C, CM105W5R471K
C94	CS0057	Chip Tantal, TMC0J226TR
C95	CU3031	Chip C, CM105W5R471K
C96	CU3035	Chip C, CM105W5R102K
C97	CE0315	Elect Cap, 16CV47B
C98	CU3035	Chip C, CM105W5R102K
C99	CU3035	Chip C, CM105W5R102K
C100	CU3031	Chip C, CM105W5R471K
C101	CU3031	Chip C, CM105W5R471K
C102	CU3059	Chip C, CM105Y5V104Z
C103	CU3035	Chip C, CM105W5R102K
C104	CU3052	Chip C, CM105W5R103K
C105	CU3035	Chip C, CM105W5R102K
C106	CU3052	Chip C, CM105W5R103K
C107	CS0209	Chip Tantal, TMCM0J106MTRB
C108	CU3035	Chip C, CM105W5R102K
C110	CE0315	Elect Cap, 6CV47B
C111	CU3035	Chip C, CM105W5R102K
C112	CS0053	Chip Tantal, TMC0J476TR
C113	CU3035	Chip C, CM105W5R102K
C113	CU3052	Chip C, CM105W5R103K
C114	CU3035	Chip C, CM105W5R102K
C115	CU3052	Chip C, CM105W5R103K
C116	CU3059	Chip C, C2012Y1E104Z
C117	CE0315	Elect Cap, 16CV47B
C118	CU3059	Chip C, CM105Y5V104Z
C119	CU3035	Chip C, CM105W5R102K
C120	CU3035	Chip C, CM105W5R102K
C121	CU3059	Chip C, C2012Y1E104Z
C122	CU3061	Chip C, CM105CH271K
C124	CU3035	Chip C, CM105W5R102K
C125	CU3035	Chip C, CM105W5R102K
C126	CU3035	Chip C, CM105W5R102K
C127	CU3023	Chip C, CM105CH101K
C128	CU3023	Chip C, CM105CH101K
C129	CU3023	Chip C, CM105CH101K
C130	CU3023	Chip C, CM105CH101K
C131	CU3061	Chip C, CM105CH271K
C132	CU3035	Chip C, CM105W5R102K
C134	CU3054	Chip C, CM105W5R223K

Ref. No.	Part Code	Part Name and Number
C135	CU3035	Chip C, CM105W5R102K
C136	CU3035	Chip C, CM105W5R102K
C137	CS0235	Chip Tantal, TMCM1V334MTR
C138	CS0235	Chip Tantal, TMCM1V334MTR
C139	CU3035	Chip C, CM105W5R102K
C140	CU3035	Chip C, CM105W5R102K
C141	CU3035	Chip C, CM105W5R102K
C142	CU3035	Chip C, CM105W5R102K
C143	CU3035	Chip C, CM105W5R102K
C144	CU3035	Chip C, CM105W5R102K
C146	CU3023	Chip C, CM105CH101K
CN6	UE0039	Housing, TZL-P02P A1
	UA0028	FFC 20Pin 24mm
	UE0106	B-B Connector, 50020-8114
	UE0104	B-B Wafer, 53020-2810
	TS0044	VOL Earth Board
	TS0050	IF Spring

Switch Unit

SW1	UU0011	Tact Switch, SKHMPU Real
SW2	UU0011	Tact Switch, SKHMPU Real
SW3	UU0011	Tact Switch, SKHMPU Real
CN7	UE0123	Pin Header, TZL-P05P-L1
J1	RK3031	Chip J, MCR03 0Ω (T only)
J2	RK3031	Chip J, MCR03 0Ω (T only)
C35	CU3031	Chip C, CM105W5R471K
C36	CU3035	Chip C, CM105W5R102K
C37	CU3035	Chip C, CM105W5R102K
C38	CU3035	Chip C, CM105W5R102K

VCO Unit

Q3	XT0090	Transistor, 2SC2411KT146Q
Q4	XT0030	Transistor, 2SC3356T1BR25
Q5	XT0082	Transistor, 2SC3120TE85L
D1	XD0077	Varicap, 1SV161TPH2
D2	XD0077	Varicap, 1SV161TPH2
L2	QA0063	VCO Coil
L3	QK0081	Aire Core Coil, 0.4-1.5 ×4T
L4	QC0010	Chip L, MLF3216E100M
L5	QC0010	Chip L, MLF3216E100M
L6	QC0010	Chip L, MLF3216E100M
L7	QC0003	Chip L, MLF3216A1R0M
	UT0019	PC Board Terminal
	TS0039	VCO Case, 560
R4	RK3046	Chip R, MCR03 4.7KΩ
R6	RK3050	Chip R, MCR03 10KΩ
R7	RK3062	Chip R, MCR03 100KΩ
R8	RK3038	Chip R, MCR03 1KΩ
R10	RK3062	Chip R, MCR03 100KΩ
R11	RK3026	Chip R, MCR03 100Ω
R12	RK3036	Chip R, MCR03 680Ω
R13	RK3046	Chip R, MCR03 4.7KΩ
R14	RK3022	Chip R, MCR03 47Ω
R15	RK3026	Chip R, MCR03 100Ω
R16	RK3050	Chip R, MCR03 10KΩ
R17	RK3054	Chip R, MCR03 22KΩ
R18	RK3030	Chip R, MCR03 220Ω
R19	RK3052	Chip R, MCR03 15KΩ
C1	CS0058	Chip Tantal, TMC0J685TR
C2	CU8003	Chip C, C2012Y1E104Z
C4	CU3035	Chip C, CM105W5R102K
C5	CU3052	Chip C, CM105W5R103K
C6	CU3035	Chip C, CM105W5R102K
C7	CU3052	Chip C, CM105W5R103K
C8	CU3035	Chip C, CM105W5R102K
C10	CU3052	Chip C, CM105W5R103K
C11	CU3035	Chip C, CM105W5R102K
C12	CS0063	Chip Tantal, TMC1V104TR
C13	CU3003	Chip C, CM105CH020C
C14	CU3052	Chip C, CM105W5R103K
C15	CU3023	Chip C, CM105CH101K
C17	CU3035	Chip C, CM105W5R102K
C18	CU3035	Chip C, CM105W5R102K

UCO Unit

Q3	XT0035	Transistor, 2SC3429T85R
Q4	XT0035	Transistor, 2SC3429T85R
Q5	XT0030	Transistor, 2SC3356T1BR25
D2	XD0098	Varicap, 1SV153TPH2
D3	XD0098	Varicap, 1SV153TPH2
D4	XD0098	Varicap, 1SV153TPH2
D5	XD0098	Varicap, 1SV153TPH2
D6	XD0098	Varicap, 1SV153TPH2
D7	XD0040	Diode, DAN202KT96
L2	QK0087	Aire Core Coil, 0.45-2.0×4.5T
L3	QC0039	Chip L, NL322522T1R0M
L4	QC0039	Chip L, NL322522T1R0M
L5	QK0082	Aire Core Coil, 0.5-2.0 ×3.5T
L6	QC0067	Chip L, NL322522TR10M
	UT0019	PC Board Terminal, CK-1-2
	TS0032A	VCO Case, 460SX
R7	RK3042	Chip R, MCR03 2.2KΩ
R8	RK3042	Chip R, MCR03 2.2KΩ
R9	RK3032	Chip R, MCR03 330Ω
R10	RK3048	Chip R, MCR03 6.8KΩ
R11	RK3028	Chip R, MCR03 150Ω
R12	RK3050	Chip R, MCR03 10KΩ
R13	RK3022	Chip R, MCR03 47Ω
R14	RK3042	Chip R, MCR03 2.2KΩ
R15	RK3042	Chip R, MCR03 2.2KΩ
R16	RK3050	Chip R, MCR03 10KΩ
R17	RK3032	Chip R, MCR03 330Ω
R18	RK3046	Chip R, MCR03 4.7KΩ
R19	RK3028	Chip R, MCR03 150Ω
R20	RK3050	Chip R, MCR03 10KΩ
R21	RK3022	Chip R, MCR03 47Ω
R22	RK3051	Chip R, MCR03 12KΩ
R23	RK3046	Chip R, MCR03 4.7KΩ
R24	RK3022	Chip R, MCR03 47Ω
C1	CS0057	Chip Tantal, TMC0J225TR
C11	CU3027	Chip C, CM105SL221K
C13	CU3057	Chip C, CM105CH130J
C14	CU3008	Chip C, CM105CH070C
C15	CU3035	Chip C, CM105W5R102K
C16	CU3035	Chip C, CM105W5R102K
C17	CU3016	Chip C, CM105CH270K
C18	CU3005	Chip C, CM105CH040C
C19	CU3002	Chip C, CM105CH010C (E only)
C20	CU3010	Chip C, CM105CH090C
C21	CU3011	Chip C, CM105CH100K
C22	CU3035	Chip C, CM105W5R102K
C23	CU3035	Chip C, CM105W5R102K
C24	CU3002	Chip C, CM105CH010C
C25	CS0049	Chip Tantal, TMC1C105TR
C26	CU3035	Chip C, CM105W5R102K
C27	CU3035	Chip C, CM105W5R102K
C28	CU3035	Chip C, CM105W5R102K
C29	CU3002	Chip C, CM105CH010C
C31	CU3035	Chip C, CM105W5R102K
C32	CU3035	Chip C, CM105W5R102K

RF Unit

IC1	XA0069	IC, M57797MA
IC2	XA0044	IC, M57796MA
IC3	XA0103	IC, MB1501PF-BND-TF
IC4	XA0103	IC, MB1501PF-BND-TF
Q3	XE0015	FET, 2SK302YTE85
Q4	XT0036	Transistor, 2SC2413KT146P
Q5	XT0036	Transistor, 2SC2413KT146P
Q6	XU0017	Digital Transistor, DTC114YKT146
Q7	XU0002	Digital Transistor, DTC114YKT146
Q8	XT0030	Transistor, 2SC3356-T1BR25
Q9	XT0030	Transistor, 2SC3356-T1BR25
Q10	XT0048	Transistor, 2SC3357-T1RE
Q11	XT0030	Transistor, 2SC3356-T1BR25
Q12	XT0030	Transistor, 2SC3356-T1BR25
Q13	XU0002	Digital Transistor, DTC114YKT146
Q14	XU0002	Digital Transistor, DTC114YKT146
Q15	XT0030	Transistor, 2SC3356-T1BR25
Q16	XT0030	Transistor, 2SC3356-T1BR25
Q17	XE0015	FET, 2SK302YTE85
Q18	XT0048	Transistor, 2SC3357-T1RE
Q19	XT0030	Transistor, 2SC3356-T1BR25
Q20	XT0082	Transistor, 2SC3120TE85L
Q21	XU0017	Digital Transistor, DTC114YKT146
Q22	XU0002	Digital Transistor, DTC114YKT146
D2	XD0066	Diode, RLS135-TE-11
D3	XD0040	Diode, DAN202KT96
D4	XD0040	Diode, DAN202KT96
D5	XD0061	Diode, DAN204KT96
D8	XD0066	Diode, RLS135-TE-11
D9	XD0066	Diode, RLS135-TE-11
D10	XD0066	Diode, RLS135-TE-11
D14	XD0066	Diode, RLS135-TE-11
D15	XD0066	Diode, RLS135-TE-11
D16	XD0066	Diode, RLS135-TE-11
D17	XD0077	Varicap, 1SV161TPH2
D18	XD0077	Varicap, 1SV161TPH2
D19	XD0077	Varicap, 1SV161TPH2
VR1	RH0037	VR, CVR-42A-471AW1D
VR2	RH0036	VR, CVR-42A-102AW1D
VR3	RH0038	VR, CVR-42A-473AW1D
VR4	RH0038	VR, CVR-42A-473AW1D
TC4	CT0012	Trimmer Condenser, CTZ-10AW
TC5	CT0012	Trimmer Condenser, CTZ-10AW
TC6	CT0012	Trimmer Condenser, CTZ-10AW
TC7	CT0012	Trimmer Condenser, CTZ-10AW
L3	QA0064	Filter Matching Coil
L4	QA0064	Filter Matching Coil
L5	QA0064	Filter Matching Coil
L6	QC0003	Chip L, MLF3216A1R0M
L7	QC0016	Chip L, MLF3216A2R2M
L9	QK0012	Air Core Coil, 0.4-2.0×2.5T
L10	QK0012	Air Core Coil, 0.4-2.0×2.5T
L11	QK0012	Air Core Coil, 0.4-2.0×2.5T
L12	QK0012	Air Core Coil, 0.4-2.0×2.5T
L13	QC0013	Choke Coil, LAL021R0M
L14	QC0012	Choke Coil, LAL02NA4R7M
L15	QC0012	Choke Coil, LAL02NA4R7M
L16	QK0012	Air Core Coil, 0.4-2.0×2.5T
L17	QK0047	Air Core Coil, 0.5-2.2×3.5T
L18	QK0047	Air Core Coil, 0.5-2.2×3.5T
L19	QK0047	Air Core Coil, 0.5-2.2×3.5T
L20	QK0048	Air Core Coil, 0.5-2.2×4.5T
L21	QK0074	Air Core Coil, 0.4-1.6×9.5T
L22	QA0065	Front End, BPF
L23	QC0003	Chip L, MLF3216A1R0M
L24	QA0065	Front End, BPF
L25	QA0065	Front End, BPF
L26	QA0064	Filter Matching Coil
L27	QA0064	Filter Matching Coil
L28	QA0064	Filter Matching Coil
L29	QK0012	Air Core Coil, 0.4-2.0×2.5T
L30	QC0013	Choke Coil, LAL021R0M
L31	QC0047	Chip L, NLF322522T4R7M
L32	QK0079	Air Core Coil, 0.4-2.6×6T
L33	QC0013	Choke Coil, LAL021R0M
L34	QC0015	Choke Coil, LAL02R22M
L35	QC0003	Chip L, MLF3216A1R0M
L36	QK0012	Air Core Coil, 0.4-2.0×2.5T
J1	RK3001	Chip R, MCR03 0Ω
J2	RK3001	Chip R, MCR03 0Ω

Ref. No.	Part Code	Part Name and Number
J3	RK3001	Chip R, MCR03 0Ω
J4	RK3001	Chip R, MCR03 0Ω
R10	RK3038	Chip R, MCR03 1KΩ
R11	RK3050	Chip R, MCR03 10KΩ
R12	RK3034	Chip R, MCR03 470Ω
R13	RK3030	Chip R, MCR03 220Ω
R14	RK3058	Chip R, MCR03 47KΩ
R15	RK3058	Chip R, MCR03 47KΩ
R16	RK3038	Chip R, MCR03 1KΩ
R17	RK3068	Chip R, MCR03 330KΩ
R18	RK3042	Chip R, MCR03 2.2KΩ
R19	RK3038	Chip R, MCR03 1KΩ
R20	RK3026	Chip R, MCR03 100Ω
R24	RK3050	Chip R, MCR03 10KΩ
R25	RK3050	Chip R, MCR03 10KΩ
R26	RK3050	Chip R, MCR03 10KΩ
R27	RK3026	Chip R, MCR03 100Ω
R28	RK3026	Chip R, MCR03 100Ω
R30	RK3026	Chip R, MCR03 100Ω
R34	RK3034	Chip R, MCR03 470Ω
R35	RK3046	Chip R, MCR03 4.7KΩ
R36	RK3042	Chip R, MCR03 2.2KΩ
R38	RK3038	Chip R, MCR03 1KΩ
R39	RK3062	Chip R, MCR03 100KΩ
R40	RK3026	Chip R, MCR03 100Ω
R41	RK3046	Chip R, MCR03 4.7KΩ
R42	RK3046	Chip R, MCR03 4.7KΩ
R44	RK3062	Chip R, MCR03 100KΩ
R45	RK3014	Chip R, MCR03 10Ω
R46	RK3030	Chip R, MCR03 220Ω
R49	RK3050	Chip R, MCR03 10KΩ
R50	RK3056	Chip R, MCR03 33KΩ
R51	RK3030	Chip R, MCR03 220Ω
R52	RK3026	Chip R, MCR03 100Ω
R53	RK3026	Chip R, MCR03 100Ω (E only)
R54	RK0106	Chip R, MCR10 3.3Ω
R55	RK3038	Chip R, MCR03 1KΩ
R56	RK3034	Chip R, MCR03 470Ω
R57	RK3034	Chip R, MCR03 470Ω
R58	RK3034	Chip R, MCR03 470Ω
R59	RK3026	Chip R, MCR03 100Ω
R60	RK3046	Chip R, MCR03 4.7KΩ
R61	RK3050	Chip R, MCR03 10KΩ (E only)
R62	RK3064	Chip R, MCR03 150KΩ
R63	RK3034	Chip R, MCR03 470Ω
R64	RK3034	Chip R, MCR03 470Ω
R65	RK3026	Chip R, MCR03 100Ω
R66	RK3046	Chip R, MCR03 4.7KΩ
R67	RK3046	Chip R, MCR03 4.7KΩ
R68	RK3074	Chip R, MCR03 1MΩ
R69	RK3062	Chip R, MCR03 100KΩ
R70	RK3018	Chip R, MCR03 22Ω
R71	RK3026	Chip R, MCR03 100Ω
R72	RK3074	Chip R, MCR03 1MΩ
R73	RK3074	Chip R, MCR03 1MΩ
R74	RK3050	Chip R, MCR03 10KΩ
R75	RK3056	Chip R, MCR03 33KΩ
R76	RK3026	Chip R, MCR03 100Ω
R77	RK3026	Chip R, MCR03 100Ω
R78	RK3034	Chip R, MCR03 470Ω
R79	RK3038	Chip R, MCR03 1KΩ
R80	RK3038	Chip R, MCR03 1KΩ
R81	RK3058	Chip R, MCR03 47KΩ
R82	RK3030	Chip R, MCR03 220Ω
R83	RK3026	Chip R, MCR03 100Ω
R86	RK3038	Chip R, MCR03 1KΩ
R87	RK3034	Chip R, MCR03 470Ω
R88	RK3034	Chip R, MCR03 470Ω
R89	RK3022	Chip R, MCR03 47Ω
R90	RK3050	Chip R, MCR03 10KΩ
R91	RK3046	Chip R, MCR03 4.7KΩ
R93	RK3026	Chip R, MCR03 100Ω
R94	RK3038	Chip R, MCR03 1KΩ
R98	RK3050	Chip R, MCR03 10KΩ
R99	RK3050	Chip R, MCR03 10KΩ
R100	RK3050	Chip R, MCR03 10KΩ
R101	RK3026	Chip R, MCR03 100Ω
R102	RK3026	Chip R, MCR03 100Ω
R103	RK3014	Chip R, MCR03 10Ω
R105	RK3042	Chip R, MCR03 2.2KΩ
R106	RK3034	Chip R, MCR03 470Ω
R107	RK3022	Chip R, MCR03 47Ω
R108	RK3038	Chip R, MCR03 1KΩ
R109	RK3030	Chip R, MCR03 220Ω
R110	RK3062	Chip R, MCR03 100KΩ
R111	RK3022	Chip R, MCR03 47Ω
R112	RK3022	Chip R, MCR03 47Ω
R114	RK3026	Chip R, MCR03 100Ω
R115	RK3074	Chip R, MCR03 1MΩ
R116	RK3026	Chip R, MCR03 100Ω
R118	RK3034	Chip R, MCR03 470Ω
R120	RK3026	Chip R, MCR03 100Ω
R122	RK3026	Chip R, MCR03 100Ω
J11	RK0107	Chip R, MCR10 0Ω
J14	RK0107	Chip R, MCR10 0Ω
J15	RK0107	Chip R, MCR10 0Ω
J16	RK0107	Chip R, MCR10 0Ω
J17	RK0107	Chip R, MCR10 0Ω
J18	RK0107	Chip R, MCR10 0Ω
R21	RK3054	Chip R, MCR03 22KΩ
R22	RK3054	Chip R, MCR03 22KΩ
R23	RK3054	Chip R, MCR03 22KΩ
R31	RK3054	Chip R, MCR03 22KΩ
R37	RK3054	Chip R, MCR03 22KΩ (E/ only)
R92	RK3066	Chip R, MCR03 220KΩ
R95	RK3054	Chip R, MCR03 22KΩ
R96	RK3054	Chip R, MCR03 22KΩ
R97	RK3054	Chip R, MCR03 22KΩ
R104	RK3054	Chip R, MCR03 22KΩ
J19	RK1107	Chip R, MCR18 0Ω
R53	RK3027	Chip R, MCR03 120Ω (T/TW only)
R61	RK3048	Chip R, MCR03 6.8KΩ (T/TW only)
R84	RK3027	Chip R, MCR03 120Ω

RF Unit

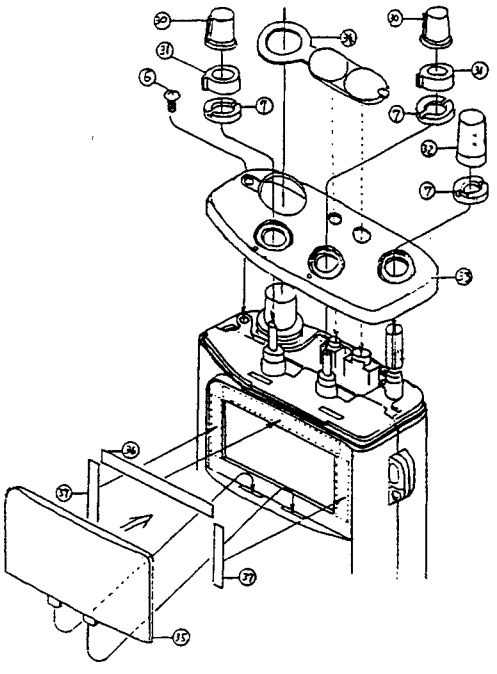
Ref. No.	Part Code	Part Name and Number
C1	CU3002	Chip C, CM105CH010C
C2	CU3013	Chip C, CM105CH150K
C4	CU3013	Chip C, CM105CH150K (E only)
C14	CU3035	Chip C, CM105W5R102K
C17	CU3005	Chip C, CM105CH040C
C18	CU3004	Chip C, CM105CH030C
C19	CU3035	Chip C, CM105W5R102K
C20	CU3052	Chip C, CM105W5R103K
C21	CU3052	Chip C, CM105W5R103K
C22	CU3052	Chip C, CM105W5R103K
C23	CU3052	Chip C, CM105W5R103K
C24	CU3062	Chip C, CM105CH160K
C25	CU3025	Chip C, CM105CH151K
C26	CU3023	Chip C, CM105CH101K
C27	CU3006	Chip C, CM105CH050C
C28	CU3015	Chip C, CM105CH220K
C29	CU3035	Chip C, CM105W5R102K
C30	CU3023	Chip C, CM105CH101K
C31	CU3035	Chip C, CM105W5R102K
C33	CS0057	Chip Tantal, TMC0J225TR
C34	CU3052	Chip C, CM105W5R103K
C35	CS0057	Chip Tantal, TMC0J225TR
C36	CU3052	Chip C, CM105W5R103K
C37	CS0209	Chip Tantal, TMCM0J106MTRB
C38	CU3006	Chip C, CM105CH050C
C39	CS0063	Chip Tantal, TMC1V104TR
C40	CS0050	Chip Tantal, TMC1A475TR
C41	CU3035	Chip C, CM105W5R102K
C45	CU3006	Chip C, CM105CH050C
C46	CU3013	Chip C, CM105CH150K (E only)
C46	CU3012	Chip C, CM105CH120K (T/TW only)
C47	CU3035	Chip C, CM105W5R102K
C48	CU3007	Chip C, CM105CH060C (T/TW only)
C48	CU3013	Chip C, CM105CH150K (E only)
C49	CU3016	Chip C, CM105CH270K
C51	CU3011	Chip C, CM105CH100K
C52	CU3035	Chip C, CM105W5R102K
C53	CU3011	Chip C, CM105CH100K
C56	CU3015	Chip C, CM105CH220K
C57	CU3035	Chip C, CM105W5R102K
C58	CU3035	Chip C, CM105W5R102K
C61	CU3002	Chip C, CM105CH010C
C64	CU3031	Chip C, CM105W5R471K
C65	CU3002	Chip C, CM105CH010C
C66	CU3035	Chip C, CM105W5R102K
C67	CU3006	Chip C, CM105CH050C (E only)
C67	CU3007	Chip C, CM105CH060C (T/TW only)
C68	CU3006	Chip C, CM105CH050C (T/TW only)
C68	CU3008	Chip C, CM105CH070C (E only)
C69	CU3035	Chip C, CM105W5R102K
C70	CE0033	Chemical C, 10V 10μFMS5D=3
C71	CU3019	Chip C, CM105CH470K
C73	CU3035	Chip C, CM105W5R102K
C74	CU3003	Chip C, CM105CH020C (T/TW only)
C74	CU3005	Chip C, CM105CH040C (E only)
C75	CU3015	Chip C, CM105CH220K (E only)
C75	CU3016	Chip C, CM105CH270K (T/TW only)
C76	CU3035	Chip C, CM105W5R102K
C77	CU3035	Chip C, CM105W5R102K
C78	CU3035	Chip C, CM105W5R102K
C79	CU3005	Chip C, CM105CH040C
C80	CU3019	Chip C, CM105CH470K
C81	CU3035	Chip C, CM105W5R102K
C82	CU3035	Chip C, CM105W5R102K
C83	CU3019	Chip C, CM105CH470K
C84	CU3035	Chip C, CM105W5R102K
C85	CU3005	Chip C, CM105CH040C
C86	CU3013	Chip C, CM105CH150K
C87	CU3035	Chip C, CM105W5R102K
C88	CU3035	Chip C, CM105W5R102K
C89	CU3006	Chip C, CM105CH050C (E only)
C89	CU3016	Chip C, CM105CH270K (T/TW only)
C90	CU3003	Chip C, CM105CH020C
C91	CU3035	Chip C, CM105W5R102K
C92	CU3035	Chip C, CM105W5R102K
C93	CU3016	Chip C, CM105CH270K
C94	CU3008	Chip C, CM105CH070C
C95	CU3011	Chip C, CM105CH100K
C96	CU3018	Chip C, CM105CH390K
C97	CU3016	Chip C, CM105CH270K
C98	CU3011	Chip C, CM105CH100K
C99	CU3035	Chip C, CM105W5R102K
C100	CU3019	Chip C, CM105CH470K
C101	CU3052	Chip C, CM105W5R103K
C102	CU3023	Chip C, CM105CH101K
C103	CU3023	Chip C, CM105CH101K
C104	CU3035	Chip C, CM105W5R102K
C105	CU3052	Chip C, CM105W5R103K
C106	CU3035	Chip C, CM105W5R102K
C108	CU3021	Chip C, CM105CH680K
C109	CU3023	Chip C, CM105CH101K
C111	CU3021	Chip C, CM105CH680K
C112	CU3021	Chip C, CM105CH680K
C113	CU3003	Chip C, CM105CH020C
C114	CU3035	Chip C, CM105W5R102K
C115	CU3001	Chip C, CM105CH0R5C
C116	CU3004	Chip C, CM105CH030C
C117	CU3003	Chip C, CM105CH020C
C118	CU3019	Chip C, CM105CH470K
C119	CU3052	Chip C, CM105W5R103K
C120	CU3052	Chip C, CM105W5R103K
C121	CU3052	Chip C, CM105W5R103K
C122	CU3015	Chip C, CM105CH220K
C123	CU3011	Chip C, CM105CH100K
C124	CU3035	Chip C, CM105W5R102K
C125	CE0032	Chemical C, 16V 4.7 μFMS5D=3
C126	CE0033	Chemical C, 10V 10μFMS5D=3
C128	CU3035	Chip C, CM105W5R102K
C129	CE0033	Chemical C, 10V 10μFMS5D=3
C130	CU3011	Chip C, CM105CH100K
C131	CU3023	Chip C, CM105CH101K
C132	CU3011	Chip C, CM105CH100K
C133	CU3035	Chip C, CM105W5R102K
C135	CU3052	Chip C, CM105W5R103K

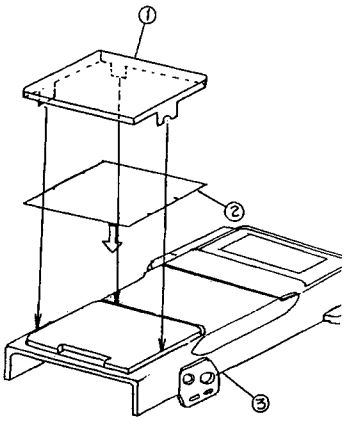
Ref. No.	Part Code	Part Name and Number
C136	CU3035	Chip C, CM105W5R102K
C137	CU3035	Chip C, CM105W5R102K
C138	CU3035	Chip C, CM105W5R102K
C140	CU3005	Chip C, CM105CH040C
C141	CU3052	Chip C, CM105W5R103K
C142	CU3015	Chip C, CM105CH220K
C143	CU3011	Chip C, CM105CH100K
C144	CU3006	Chip C, CM105CH050C
C145	CU3035	Chip C, CM105W5R102K
C146	CU3052	Chip C, CM105W5R103K
C147	CS0057	Chip Tantal, TMC0J225TR
C148	CU3035	Chip C, CM105W5R102K
C149	CS0057	Chip Tantal, TMC0J225TR
C150	CU3052	Chip C, CM105W5R103K
C151	CS0209	Chip Tantal, TMCM0J106MTRB
C152	CU3011	Chip C, CM105CH100K
C153	CU3056	Chip C, CM105Y5V473Z
C154	CS0209	Chip Tantal, TMCM0J106MTRB
C155	CS0063	Chip Tantal, TMC1V104TR
C156	CU3035	Chip C, CM105W5R102K
C157	CS0063	Chip Tantal, TMC1V104TR
C158	CU3035	Chip C, CM105W5R102K
C159	CU3019	Chip C, CM105CH470K
C160	CE0032	Chemical C, 16V 4.7 μFMS5D=3
C165	CU3052	Chip C, CM105W5R103K
C166	CU3007	Chip C, CM105CH060C
C167	CU3035	Chip C, CM105W5R102K
C168	CU3015	Chip C, CM105CH220K
C169	CU3035	Chip C, CM105W5R102K
C170	CU3052	Chip C, CM105W5R103K
C171	CU3059	Chip C, CM105Y5V104Z
C173	CU3023	Chip C, CM105CH101K
C174	CU3023	Chip C, CM105CH101K
C175	CU3035	Chip C, CM105W5R102K
C176	CU3035	Chip C, CM105W5R102K
C177	CU3035	Chip C, CM105W5R102K
C178	CU3035	Chip C, CM105W5R102K
C179	CU3031	Chip C, CM105W5R471K
C180	CU3031	Chip C, CM105W5R471K
C181	CU3035	Chip C, CM105W5R102K
C182	CU3035	Chip C, CM105W5R102K
C183	CU3006	Chip C, CM105CH050C
X1	XQ0022	UM-1 12.8MHz
XF1	XF0007	X'tal Filter, 58.125MHz UM-1
XF2	XF0003	X'tal Filter, 55.05MHz (55M15B1)
CN5	UE0105	FPC Connector, 52030-2010
	UE0029A	Antenna Connector,
S1	US0015	Slide Switch, HSW0880-01-210
CN2	UE0039	Housing, TZL-P02P-A1
CN3	UE0039	Housing, TZL-P02P-A1
CN4	UE0107	Housing, TZL-P07P-A1
JK1	UJ0017	MIC Jack, HSJ2079-01-010
JK2	UJ0016	Jack, HSJ1423-01-050
	TS0041	RF Shield
	TS0046	PM Earth Board
	AZ0026	Insulate Spacer, 3.2-6-0.3
	YZ0001	Silicon Grease

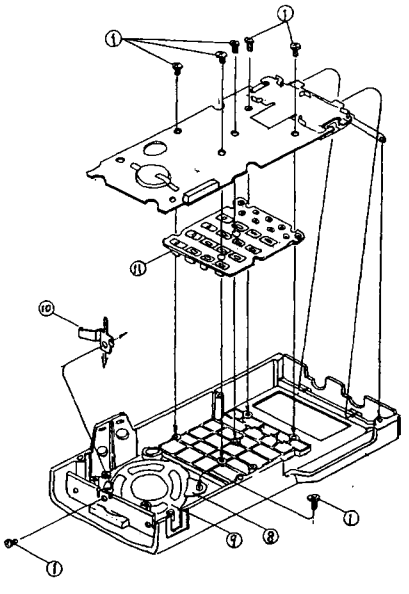
Ref. No.	Part Code	Part Name and Number

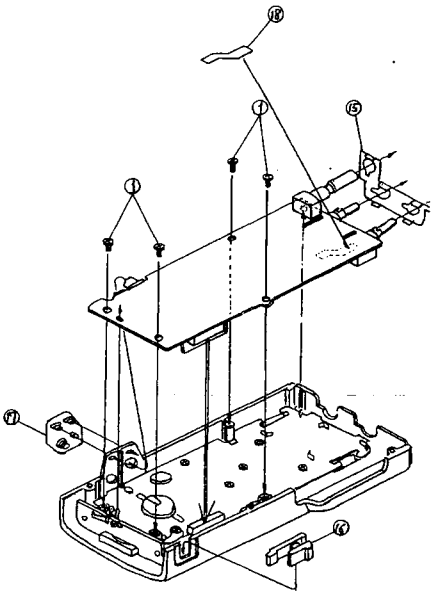
Ref. No.	Part Code	Part Name and Number

■ CABINET PARTS LOCATION







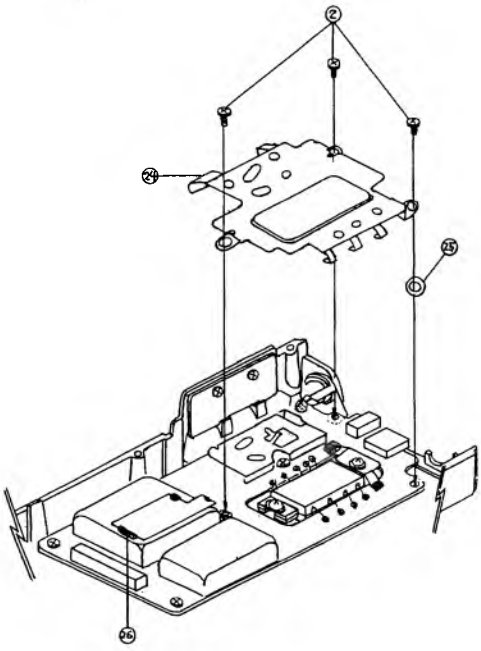


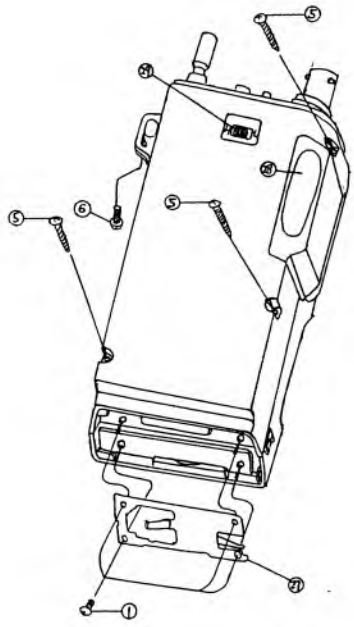
Ref. No.	Part Code	Part Name and Number
		Mechanical Parts
1	DV0003	SP Metal Nut
2	TG0006	Speaker Sheet
3	KM0060	Front Case
4	ST0023	LCD Flame
5	EL0011	LCD Panel
6	FG0053	Rubber Connector
7	DH0005	Reflection Board
8	ST0020	Speaker Stabilizer
9	ES0005	Speaker
10	UT0022	Terminal(+)
11	FG0049	Silicon Key
12	TS0045	IF Earth Board
13	TS0043	Terminal Earth Board
14	TS0051	IF Diecast Earth Board
15	TS0044	Vol Earth Board
16	NB0027	Release Knob
17	FG0052	DC Rubber
18	TS0050	IF Spring

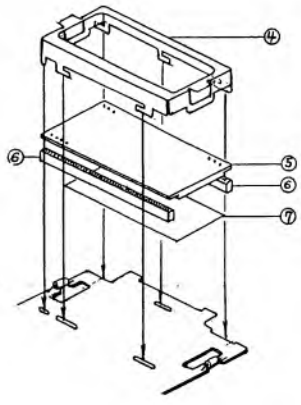
(KBoos) Rear Case

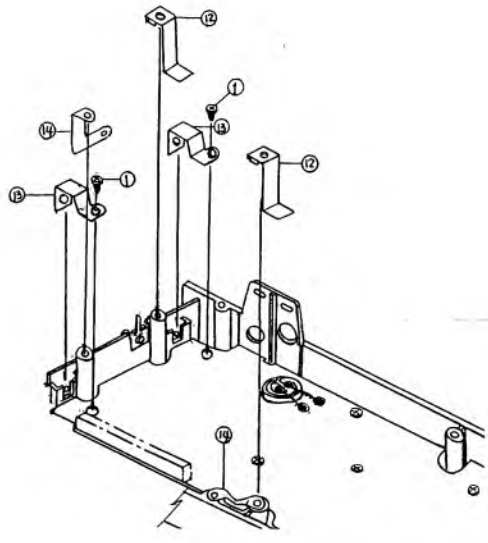
Ref. No.	Part Code	Part Name and Number
19	TS0046	PM Earth Board
20	XA0044	VHF Power Module
21	XA0069	UHF Power Module
22	UE0029A	Antenna Connector
23	TS0047	Antenna Earth 560
24	TS0040	RF Shield A
25	AZ0026	Insulate Spacer
26	TS0053	VCO Shield
27	UT0021	Terminal(-)
28	DD0006	PTT Cover
29	NS0002	H/L Knob
30	NK0019	Volume Knob
31	NW0004	Squelch Knob
32	NK0018	Dial Knob
33	KU0071	Upper Panel
34	FG0051	MIC Rubber
35	DP0042	Acryl Panel
36	YZ0068	Panel Tape
37	YZ0056	Panel Tape A

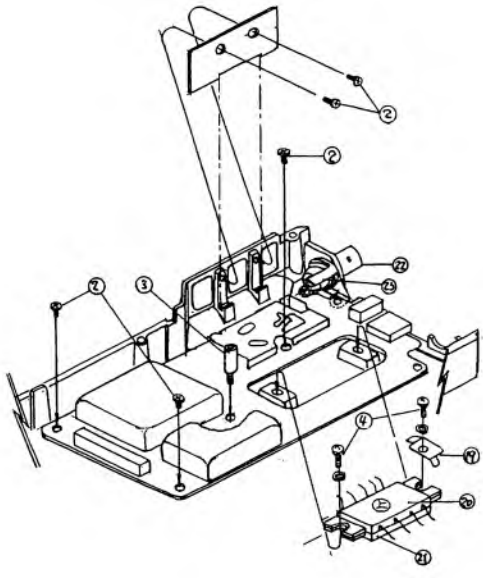
Screws		
1	AF0013	M2+4
2	AF0014	M2.6+3.5
3	SA0007	Support
4	AB0001	M2.6+8
5	AP0003	Self Tapping M2+16
6	AA0034	M2+5
7	AN0012	Dial Nut











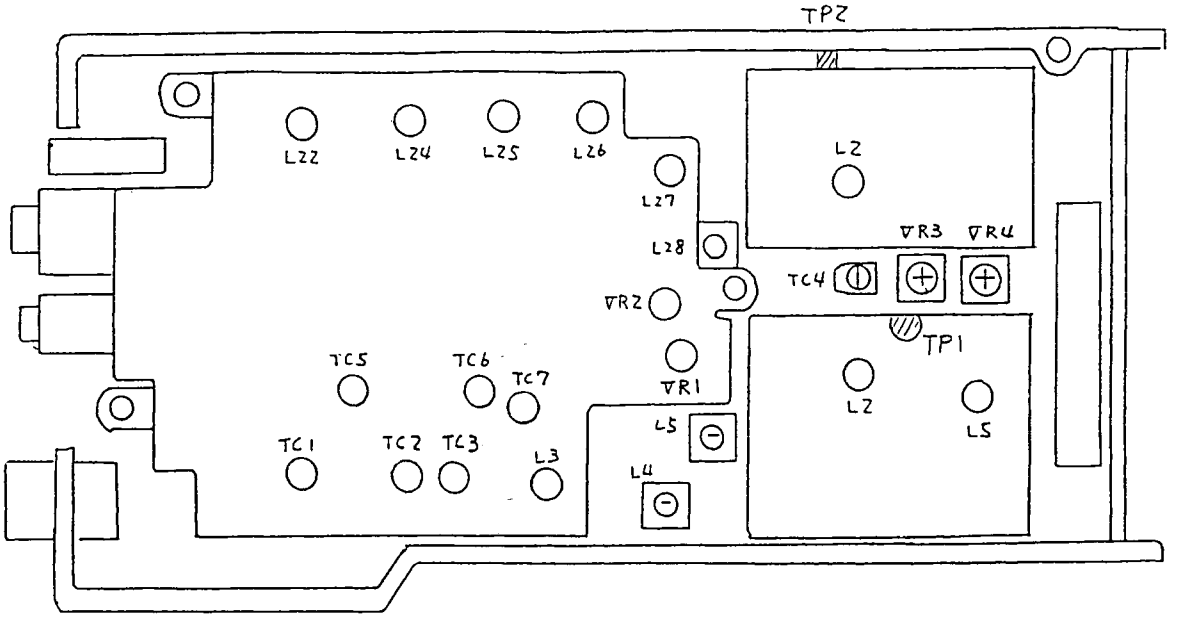
■ ADJUSTMENT (DJ-560T/E)

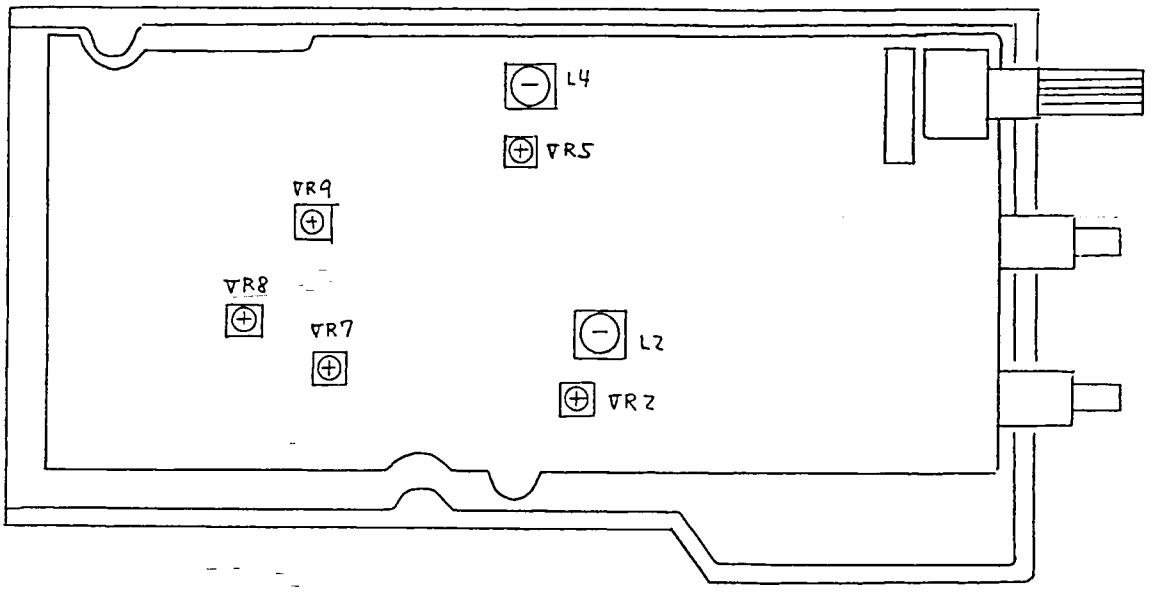
■ VHF

Item	Adjustment point(s)	Adjustment method
VCO Voltage	L2 (V-VCO Board)	Receive at 145.00MHz, then adjust L2 on V-VCO board so that the voltage of TP2 on RF board is 1.9V.
Output Power	*Hi Power VR2 (RF Board)	Transmit at 144.95MHz, then adjust VR2 on RF board so that the output power is 3.2W.
	*Low Power Verification only	Transmit at 144.95MHz on the Low power, then verify that the output power is 0.1W to 1W.
Deviation	VR4 (RF Board)	Transmit at 144.95MHz and enter the microphone input of −26dBm, then adjust VR4 on RF board so that the deviation is 4.2kHz.
	Verification only	Enter the microphone input of −45dBm/1kHz, then verify that the deviation is 3.5kHz ± 0.5kHz.
Signal to Noise Ratio	Verification only	Enter the microphone input of 3.5kHz/dev/1kHz, then verify that transmit S/N is 35dB or over.
DTMF Deviation	Verification only	Turn off the modulation output power of the signal generator and at 144.95MHz press the key pad 1, then verify the deviation is 3.1kHz ± 0.4kHz.
Subaudible Tone Deviation (T, TW)	VR9 (IF Board)	Turn off the modulation output power of the signal generator at 144.95MHz, transmit 88.5Hz tone, then adjust VR9 on IF board so that the deviation is 800kHz.
1,750kHz Tone Deviation (E)	VR9 (IF Board)	Turn off the modulation output power of the signal generator and at 144.95MHz, pressing the Tone Burst Switch on Switch board, transmit then adjust VR9 on IF board so that the deviation is 3.5kHz.
Transmitting Range	Verification only	On Hi power, transmit at the following frequencies and verify the output power as follows; 0.1W or over at 135.00MHz 0.1W or over at 169.99MHz.
Detection Coil	L4 (IF Board)	At 145.03MHz, enter +66dBμ/1kHz/3.5kHzDev of signal generator, then adjust L4 on IF board so that the detection output power is at its maximum.
Front End	L22, L24, L25, L26, L27, L28 (RF Board)	At 145.03MHz, adjust L22, L24, L25, L26, L27, and L28 so that 12dB SINAD sensitivity is at its maximum.
S meter	VR5 (IF Board)	At 145.03MHz, enter a signal of +10dB of signal generator, then adjust VR5 on IF board so that FULL in the S meter starts lighting.
Total Distortion	Verification only	At 145.03MHz enter a signal of +66dBμ/1kHz/3.5kHzDev of signal generator, then verify that the distortion at 0dBm output is 5% or under.
Total Signal to Noise Ratio	Verification only	At 145.03MHz, enter a signal of +66dBμ/1kHz/3.5kHzDev of signal generator, then verify that the S/N is 35dB or over.
Squelch	Verification only	1. Turn off the output power of signal generator and rotating the squelch knob of VHF, verify that the noise disappears at the position between 8:30 and 12 o'clock of the knob. 2. Turn the squelch knob until the noise just disappears, then verify that squelch will open at 145.03MHz and −10dB. 3. Rotate the squelch knob fully clockwise, then changing the output power of signal generator, verify that the squelch will open at −8 — +2dB.
Receiving Range	Verification only	Enter a signal of +66dBμ/1kHz/3.5kHzDev of signal generator, then verify that the unit can receive at 130.00MHz and 169.00MHz.
Transmitting Spurious	Verification only	At 144.95MHz, verify that the transmit spurious is −60dBc or under on Hi power and −50dBc or under on Low power.

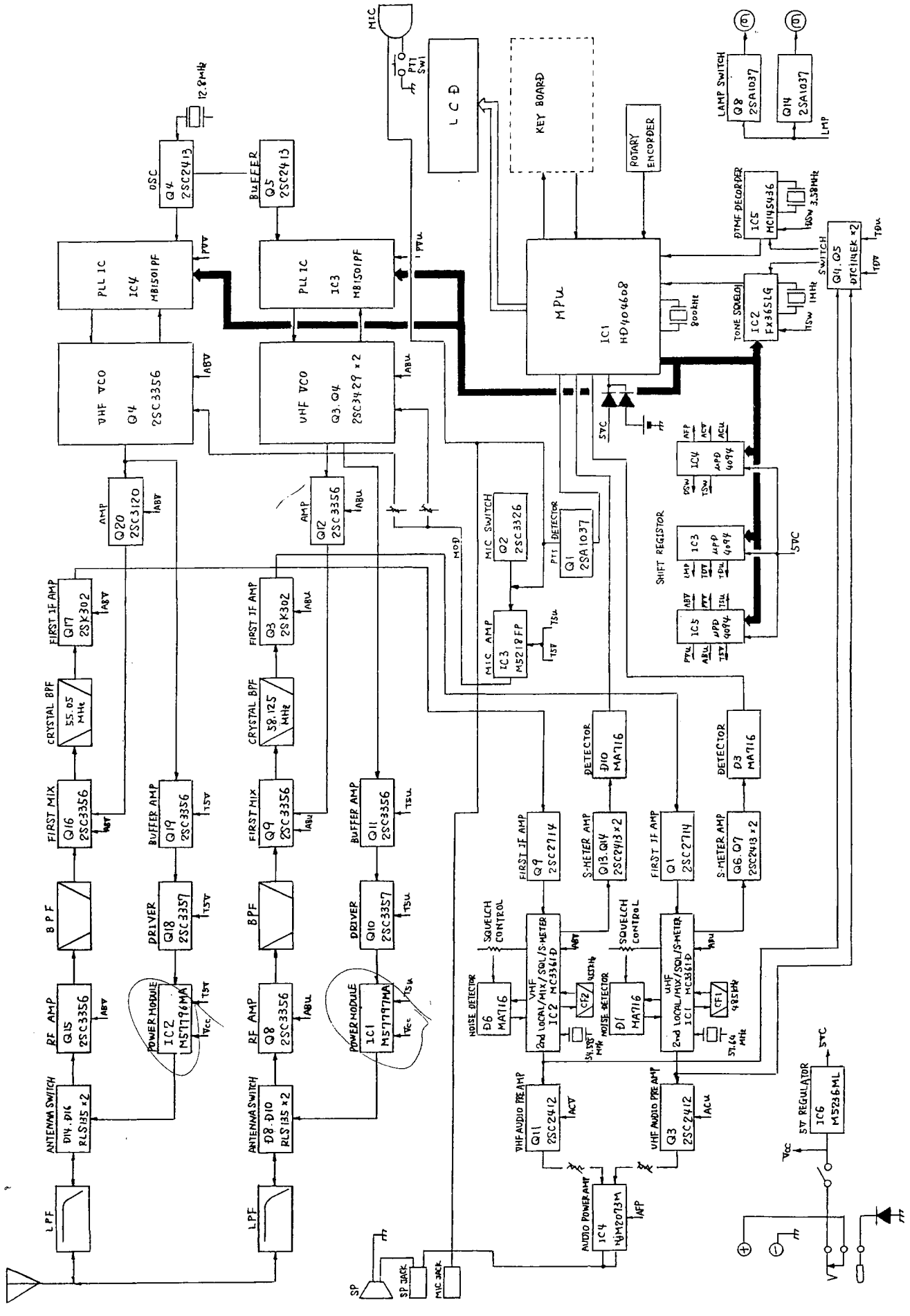
■ UHF

Item	Adjustment point(s)	Adjustment method
VCO Voltage	L5 (U-VCO Board)	1. Transmit at 430.00MHz(E) or 440.00MHz(T, TW) on Low power, then adjust L5 on U-VCO board so that the voltage of TP1 on U-VCO board is 0.6 — 1.0V(E) or 0.9 — 1.1V(T, TW).
	L2 (U-VCO Board)	2. Receive at 430.00MHz(E) or 440.00MHz(T, TW), then adjust L2 on U-VCO board so that the voltage of TP1 is 0.2 — 0.3V(E) or 1.0V(T, TW).
Basic Frequency	TC4 (RF Board)	Select UHF as the main band and transmit at 434.95MHz(E) or 444.95MHz(T, TW), then adjust TC4 on RF board so that the frequency is 434.95MHz + 50Hz(E) or 444.95MHz + 50Hz(T, TW).
Output Power	*Hi Power VR1 (RF Board)	Transmit at 434.95MHz(E) or 444.95MHz(T, TW), then adjust VR1 on RF board so that the output power is 3.2W. Verify that RF meter is full.
	*Low Power Verification only	Transmit at 434.95MHz(E) or 444.95MHz(T, TW) on Low Power, then verify the output power is 0.1 — 1W. Verify that 5 in the RF meter lights up.
Deviation	VR3 (RF Board)	Transmit at 434.95MHz(E) or 444.95MHz(T, TW) and enter the microphone input of −26dBm/1kHz, then adjust VR3 on RF board so that the deviation is 4.2kHz.
	Verification only	Enter the microphone input of −45dBm/1kHz, then verify the deviation is 3.5kHz ± 0.5kHz.
Signal to Noise Ratio	Verification only	Enter the microphone input of 3.5kHz/dev/1kHz, then verify that transmit signal noise is 35dB or over.
DTMF Deviation	VR8 (IF Board)	Turn off the modulation output of the signal generator and transmitting at 434.95MHz(E) or 444.95MHz(T, TW) and press the key pad 1, then adjust VR8 on IF board so that the deviation 3.1kHz.
Subaudible Tone Deviation (T, TW)	VR7 (IF Board)	Turn off the modulation output of the signal generator and transmit a tone of 88.5Hz, then adjust VR7 on IF board so that the deviation is 800Hz.
1,750Hz Tone Deviation (E)	VR7 (IF Board)	Turn off the modulation output of the signal generator and at 434.95MHz, press the tone burst switch on Switch board to transmit, then adjust VR7 on IF board so that the deviation is 3.5kHz.
Transmitting Range	Verification only	On Hi power, transmit at the following frequencies and verify the output power as follows; 2.3W or over at 428.00MHz 2.3W or over at 440.00MHz 0.1W or over at 465.00MHz
Detection Coil	L2 (IF Board)	At 435.03MHz(E) or 445.03MHz(T, TW), enter +66dBμ/1kHz/3.5kHzDev of signal generator, then adjust L2 on IF board so that the detection output power is at its maximum.
Front End	TC5, TC6, TC7, L3, L4, L5 (RF Board)	At 435.03MHz(E) or 445.03MHz(T, TW), adjust TC5, TC6, TC7, L3, L4, and L5 on RF board so that 12dB SINAD sensitivity is at its maximum.
S meter	VR2 (IF Board)	At 435.03MHz(E) or 445.03MHz(T, TW), enter a signal of +13dB of signal generator, then adjust VR2 on IF board so that FULL in the S meter starts lighting.
Total Distortion	Verification only	At 435.03MHz(E) or 445.03MHz(T, TW), enter a signal of +66dBμ/1kHz/3.5kHzDev of signal generator, then verify that the distortion ratio is 5% or less at 0dBm.
Total Signal to Noise Ratio	Verification only	At 435.03MHz(E) or 445.03MHz(T, TW), enter a signal of +66dBμ/1kHz/3.5kHzDev of signal generator, then verify that the S/N is 35dB or over.
Maximum Output Power	Verification only	At 435.03MHz(E) or 445.03MHz(T, TW), enter a signal of +66dBμ/1kHz/3.5kHzDev of signal generator, then verify that the output power is 4dBm(190mW) or over.
Squelch	Verification only	1. Turn off the output power of signal generator and rotating squelch knob of UHF, verify that the noise disappears at the position between 8:30 and 12 o'clock of the knob. 2. Turn the squelch knob until the noise just disappears, then verify that squelch will open at 435.03MHz(E) or 445.03MHz(T, TW) and −10dB of signal generator. 3. Rotate squelch knob fully clockwise, then changing the output power of signal generator, verify that the squelch will open at −6dB ± 4dB.
Receiving Range	Verification only	Enter a signal of +66dBμ/1kHz/3.5kHzDev of signal generator, then verify that the unit can receive at 428.00MHz and 469.99MHz.
Transmitting Spurious		At 434.95MHz, 429.95MHz, and 439.95MHz(E) or 444.95MHz, 439.95MHz, and 449.95MHz(T, TW), verify that the transmitting spurious is −60dBc or under on Hi power and −50dBc or under on Low power.

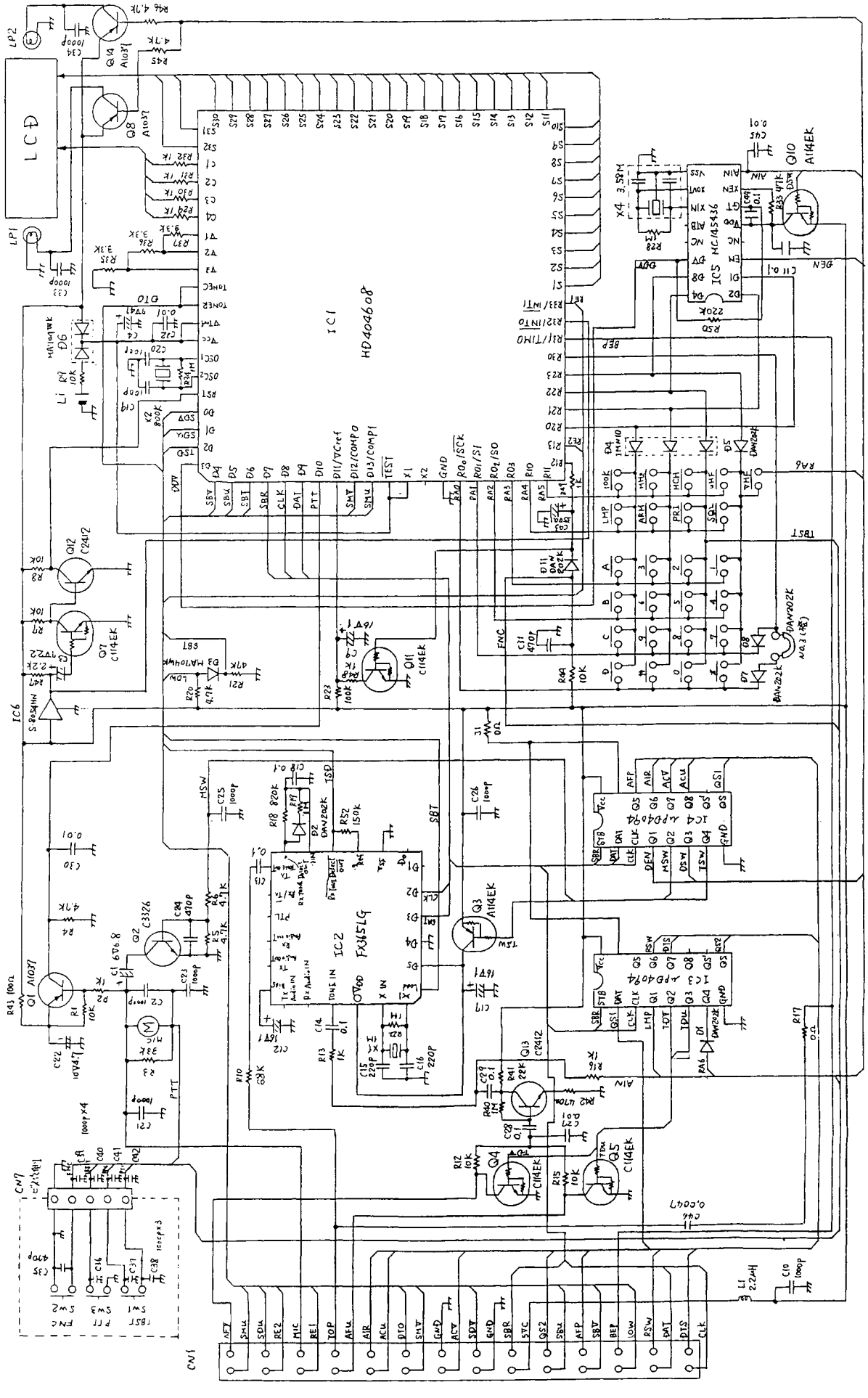

TP2
L22
L24
L25
L26
L27
L28
L2
VR3
VR4
TC4
VR2
TP1
VR1
TC5
TC6
TC7
L2
L5
L5
TC1
TC2
TC3
L3
L4

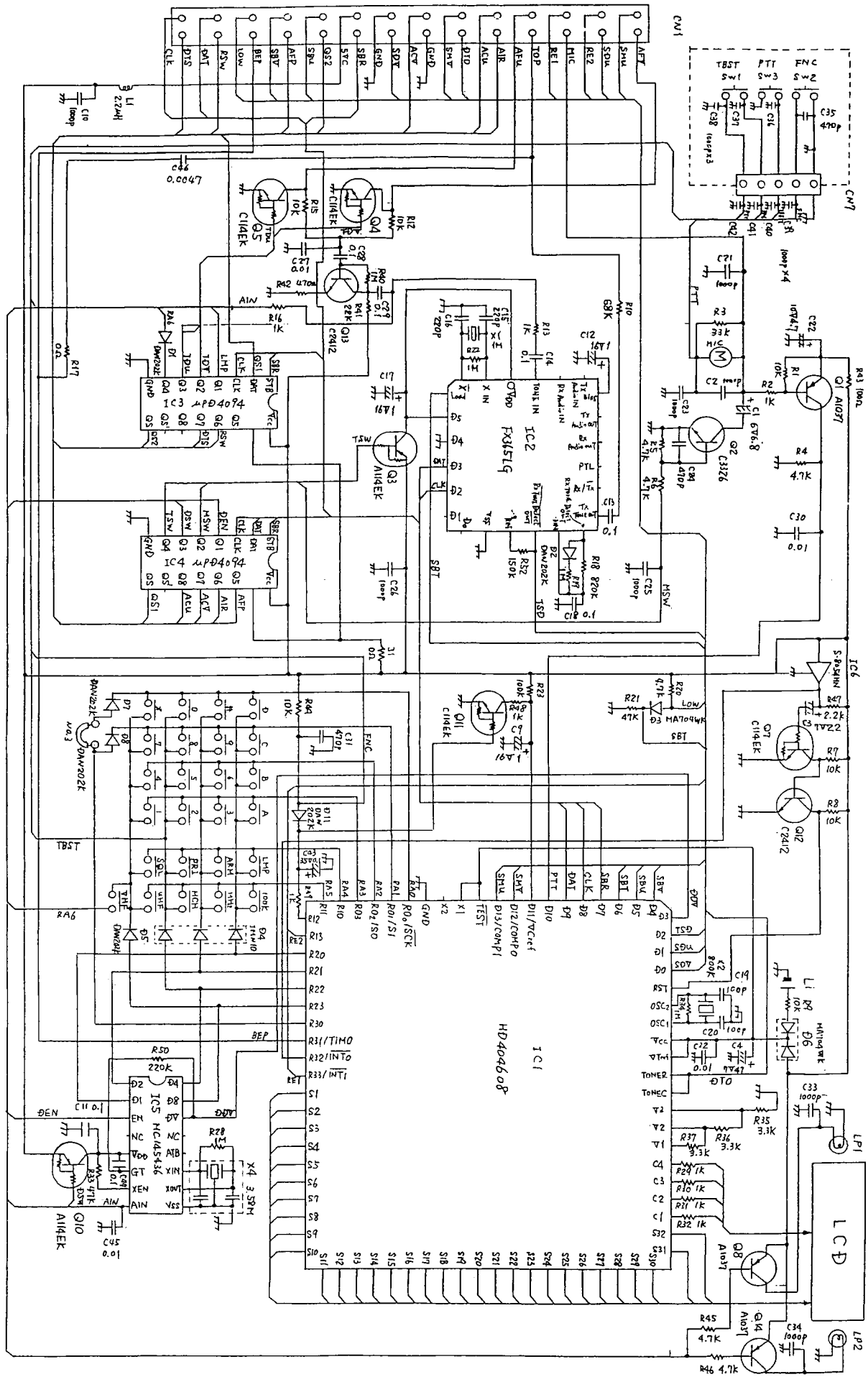

L4
VR5
VR9
VR8
VR7
L2
VR2

■ BLOCK DIAGRAM (DJ-560T/E)



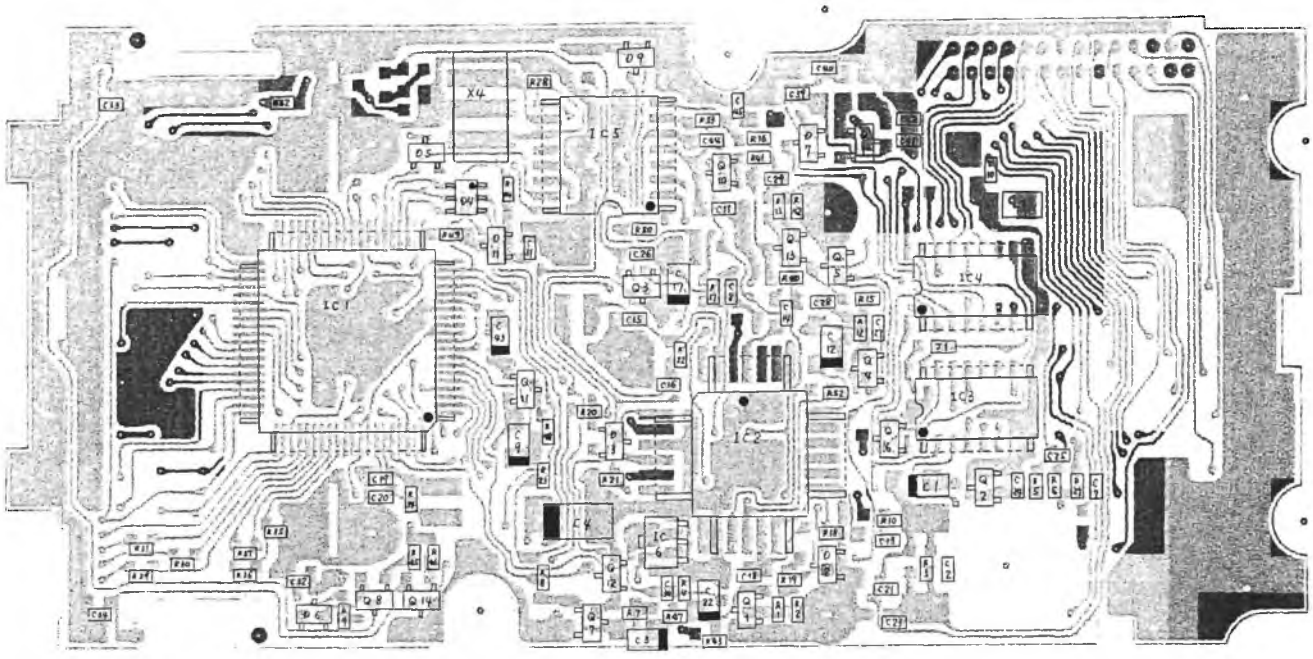
■ SCHEMATIC DIAGRAM OF CPU UNIT (DJ-560T)

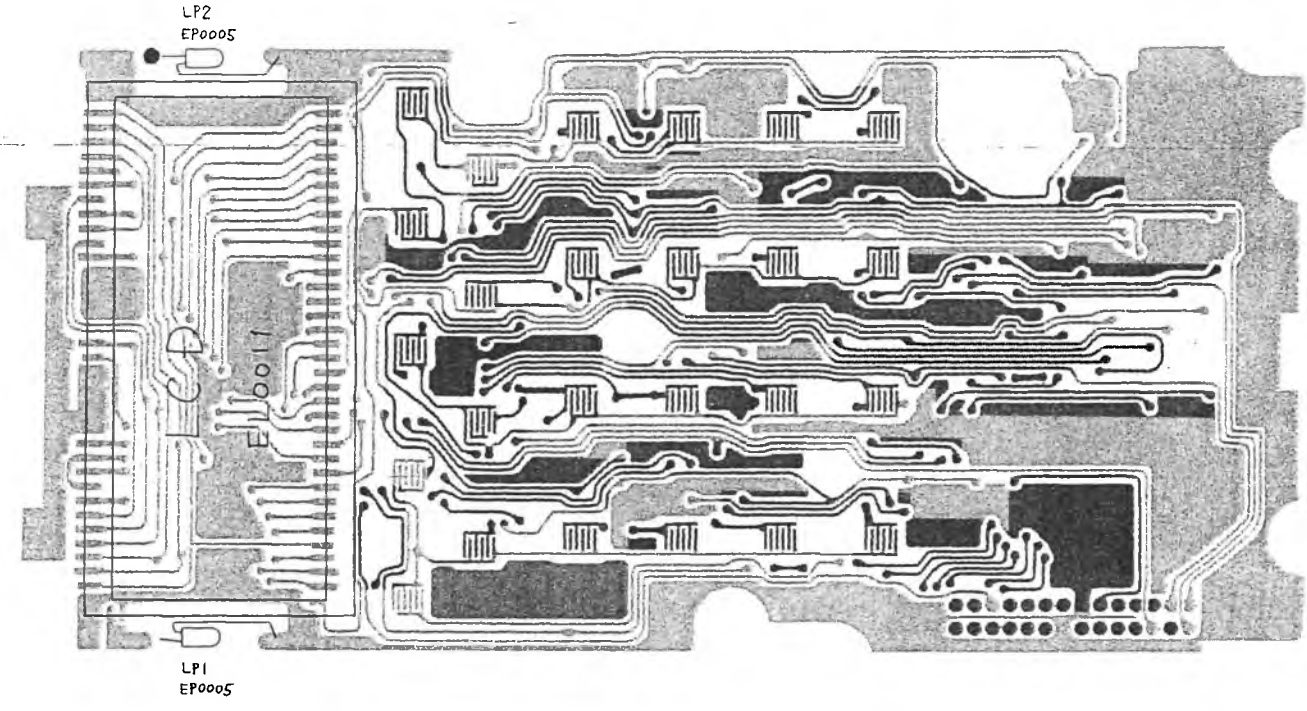


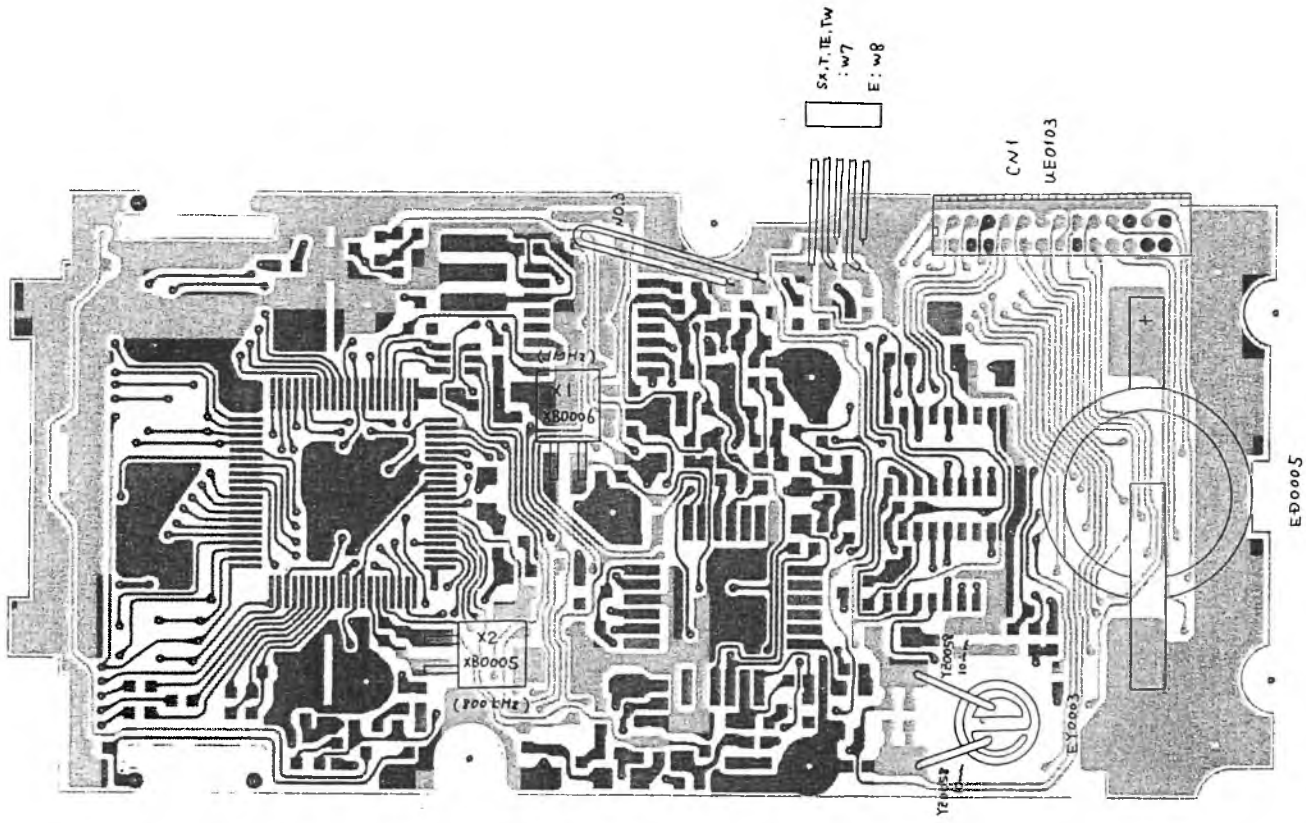


■ SCHEMATIC DIAGRAM GF CPU UNIT (DJ-560E)

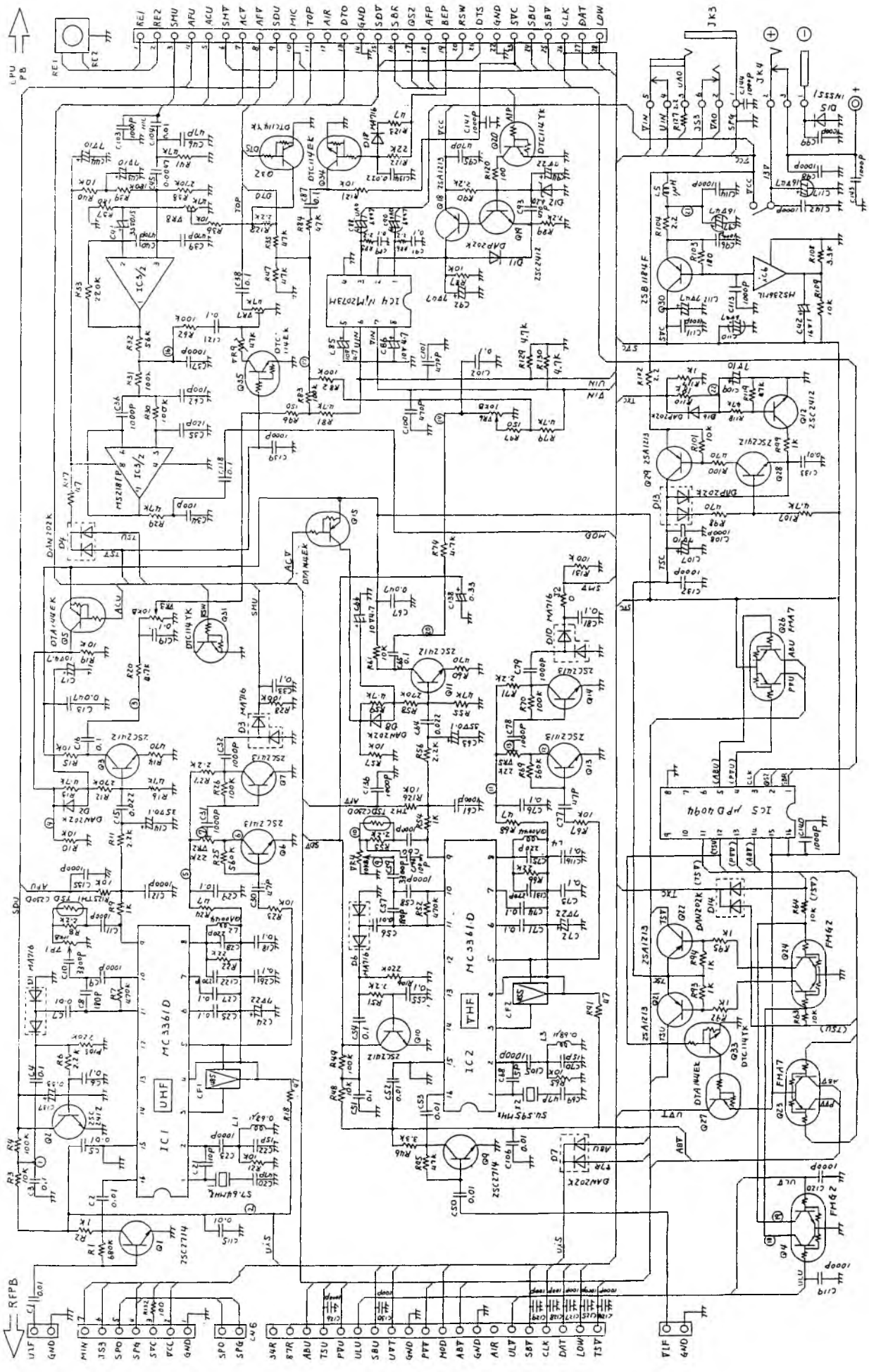
■ CPU PC BOARDS (DJ-560T/E)



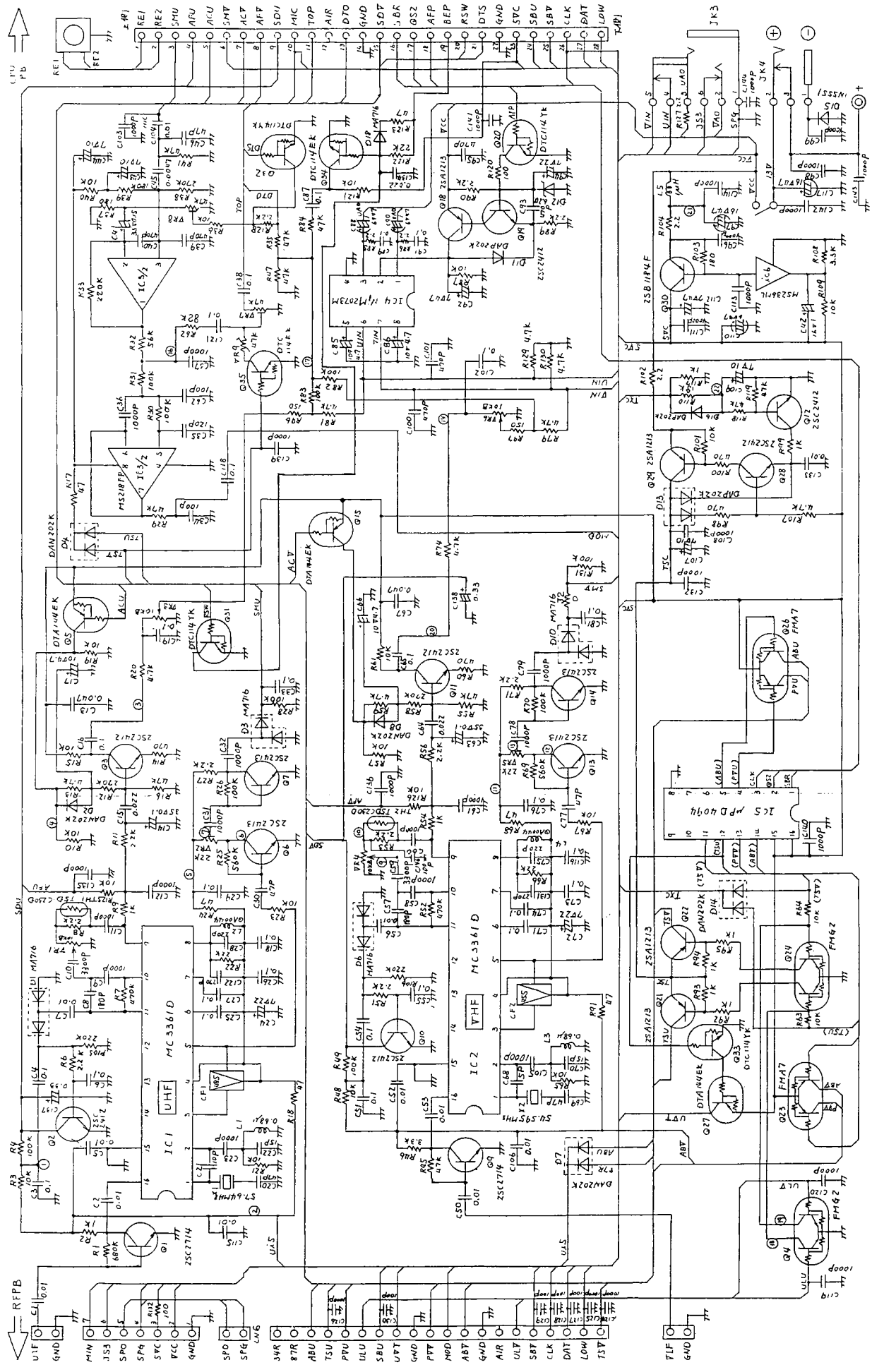



SX,T,TE,TW
: W7
E : W8
CN1
UED103
X2
X80005
(800 kHz)
X80006
EY0003
ED0005

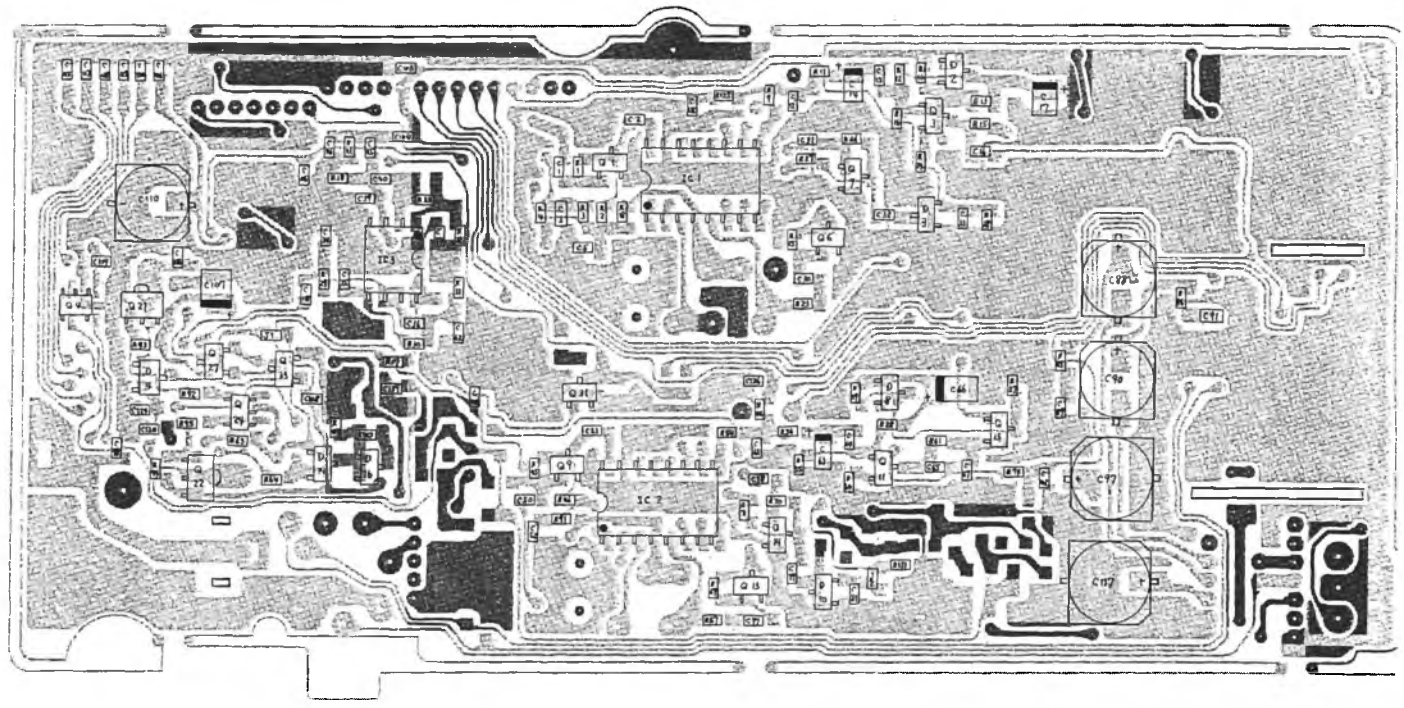
■ SCHEMATIC DIAGRAM OF IF UNIT (DJ-560T)

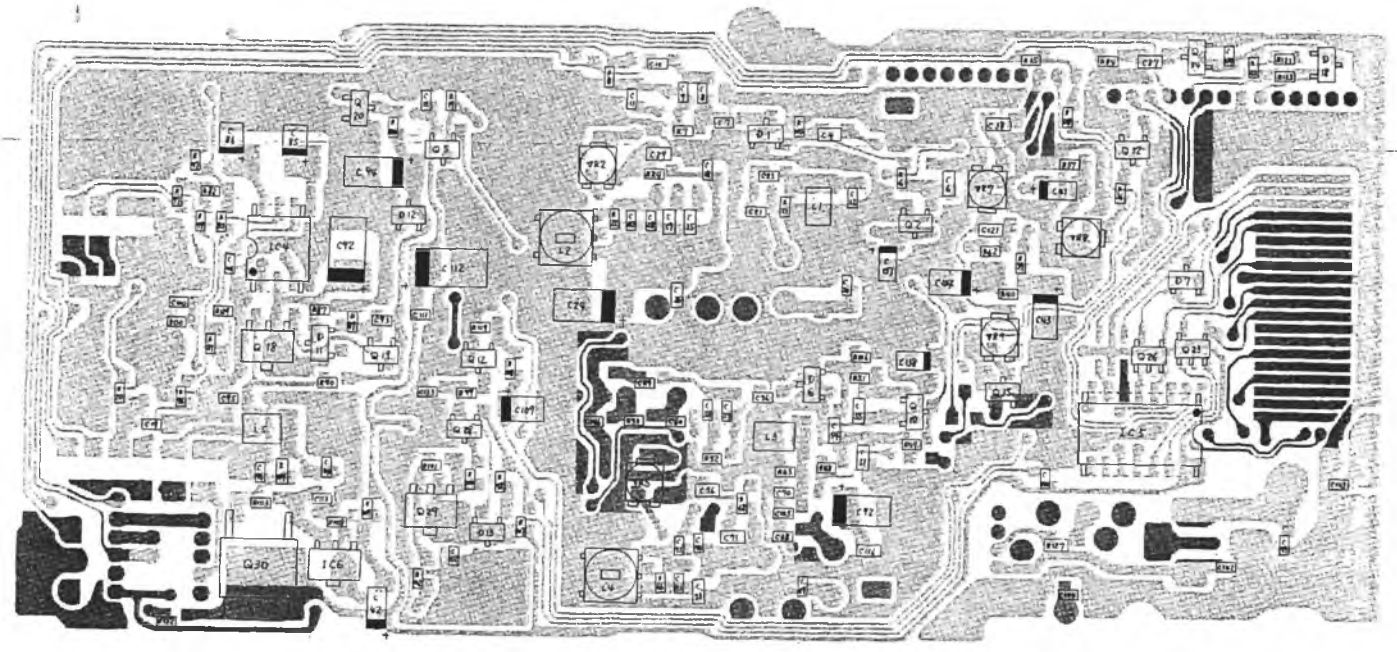


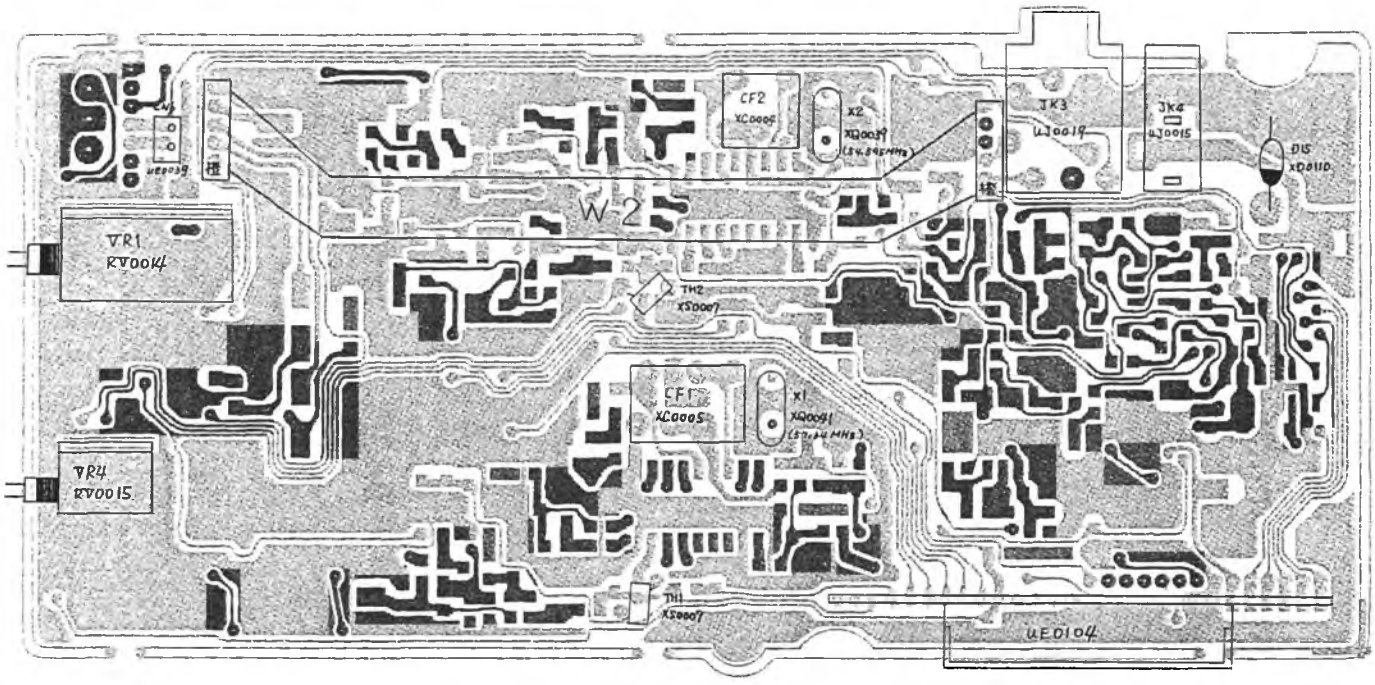
■ SCHEMATIC DIAGRAM OF IF UNIT (DJ-560E)



■ IF PC BOARDS (DJ-560T/E)



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VR4
RV0015
CF2
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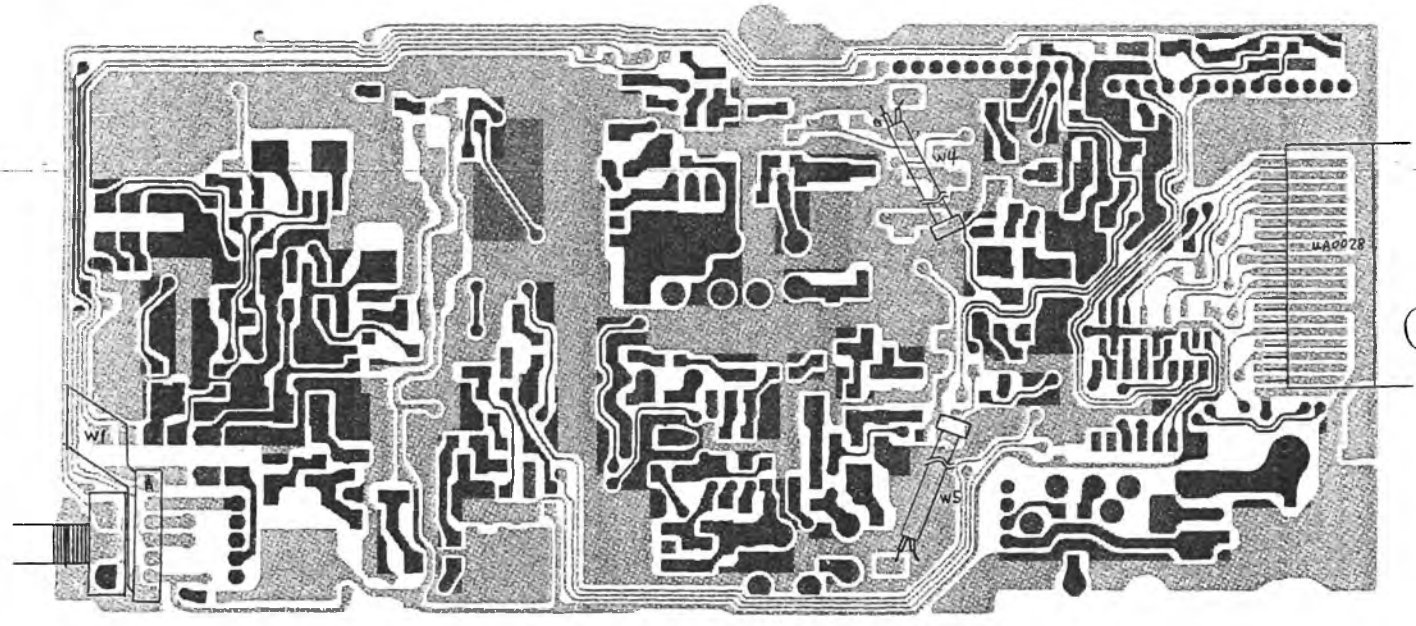
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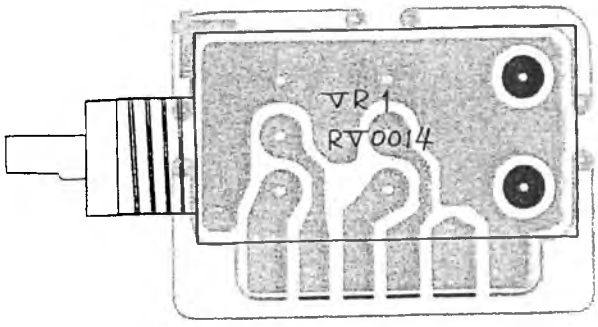
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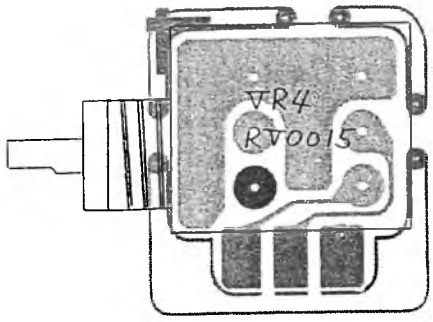
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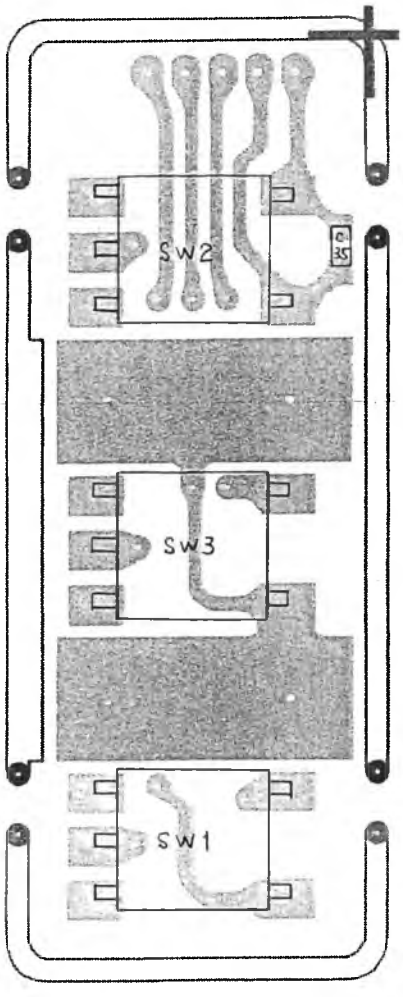
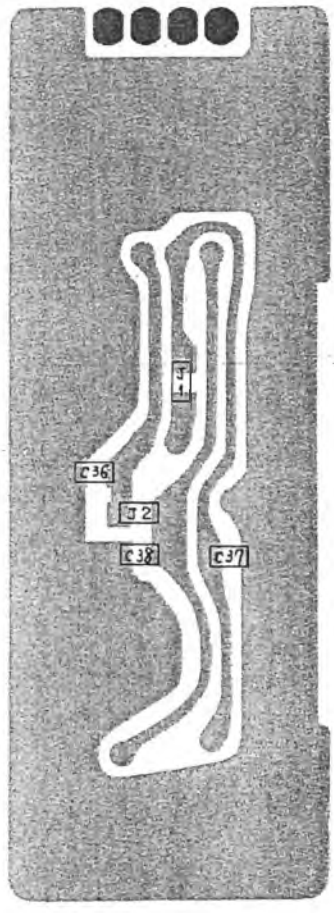

SW2
SW3
SW1


C36
C38
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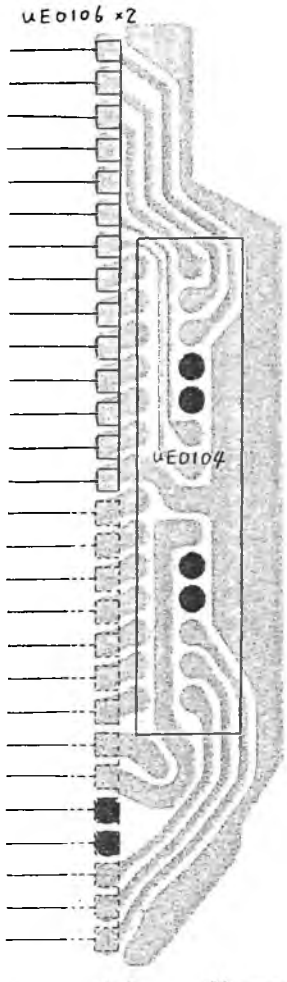
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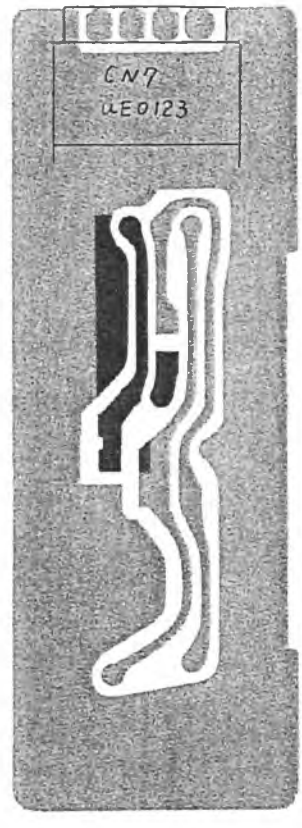
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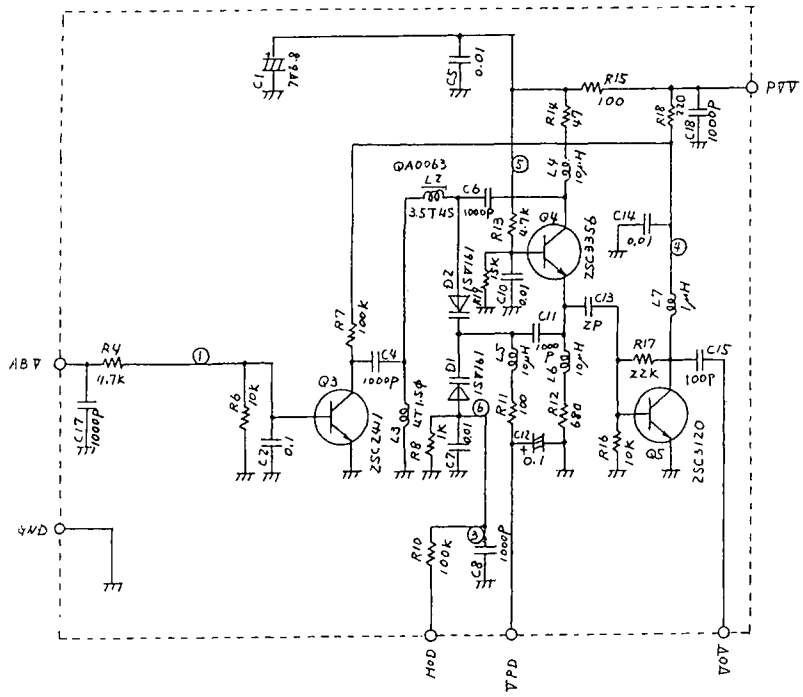
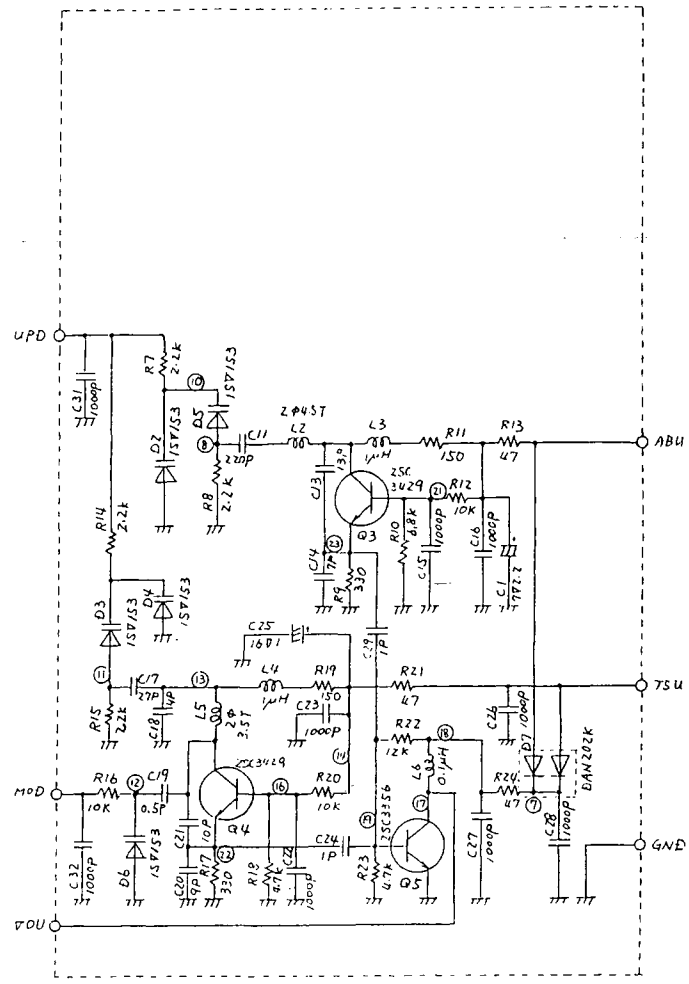
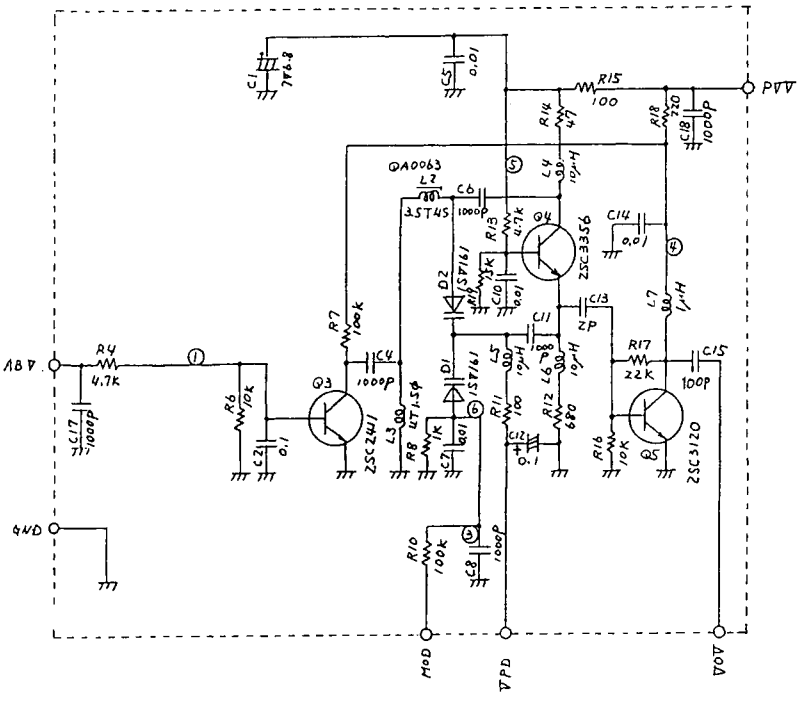
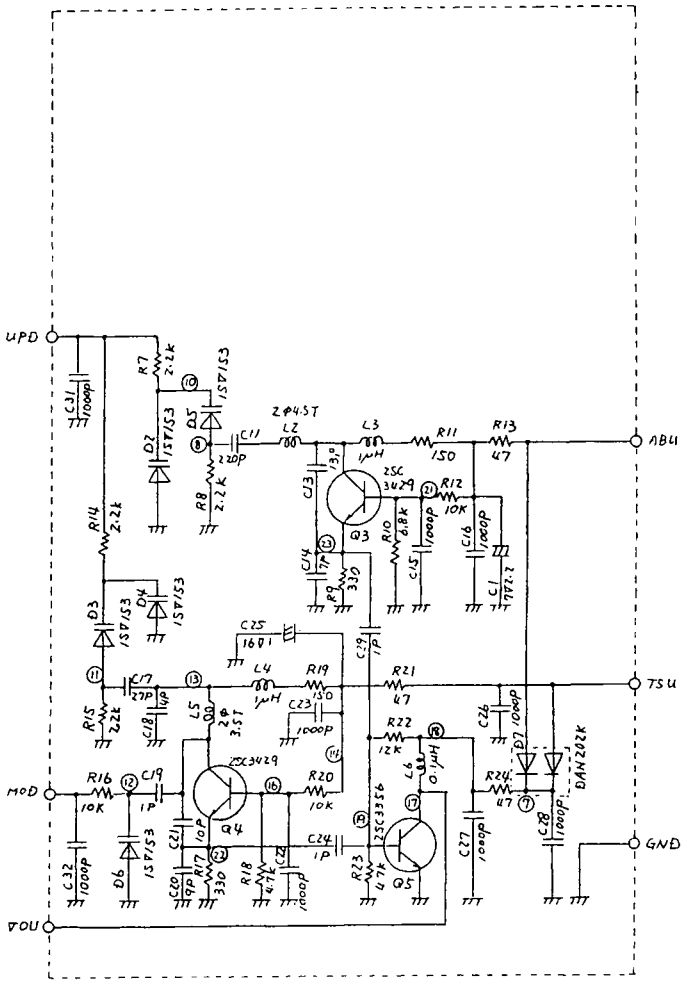
■ SCHEMATIC DIAGRAM OF VCO UNIT (DJ-560T)





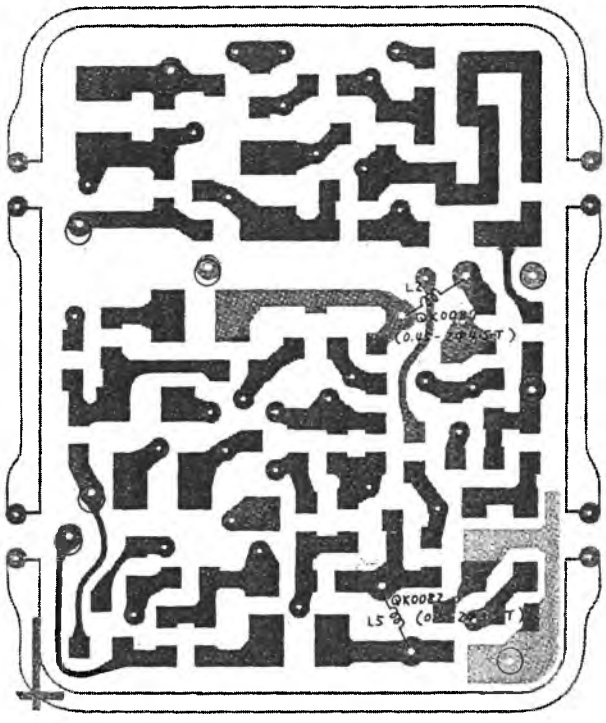
■ SCHEMATIC DIAGRAM OF VCO UNIT (DJ-560E)



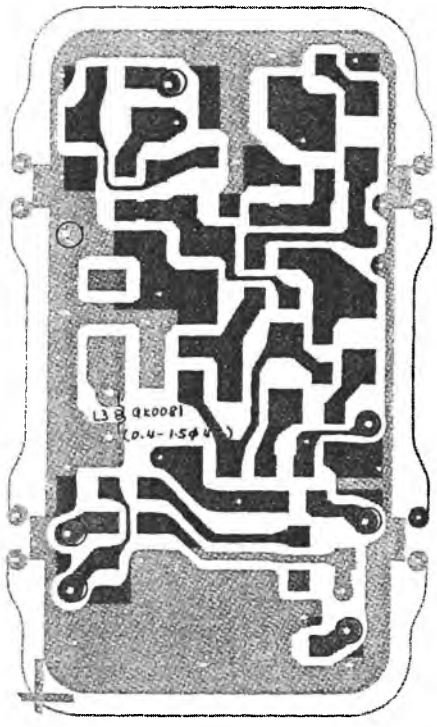


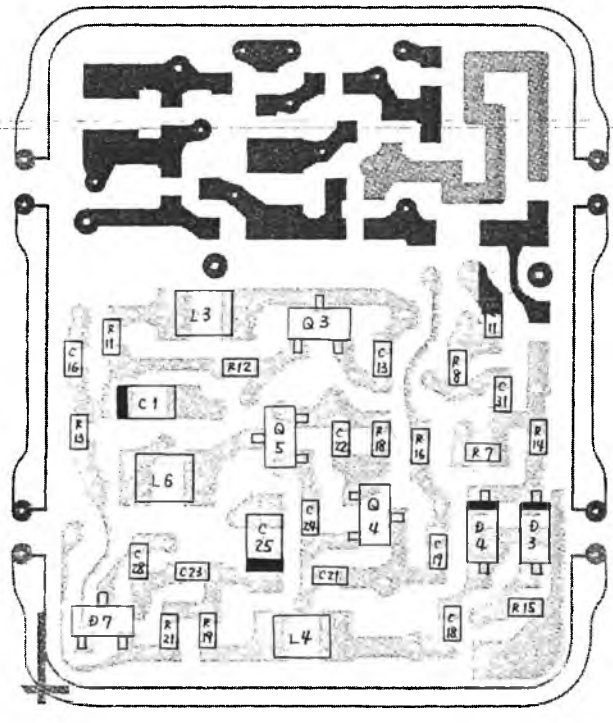
■ VCO PC BOARDS (DJ-560T/E)

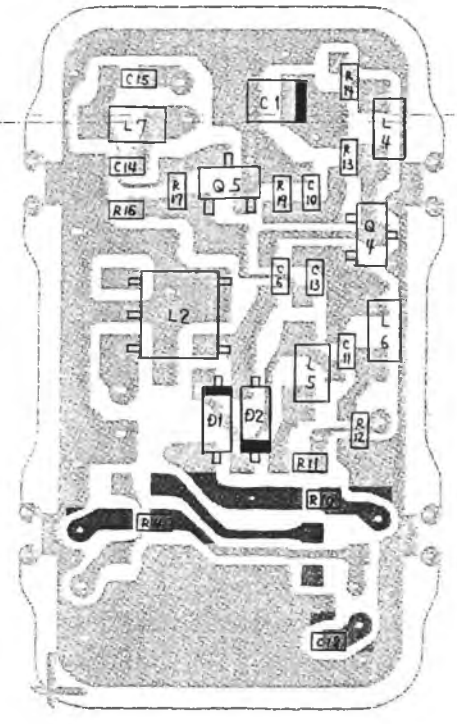
○ UT0019 (×8)

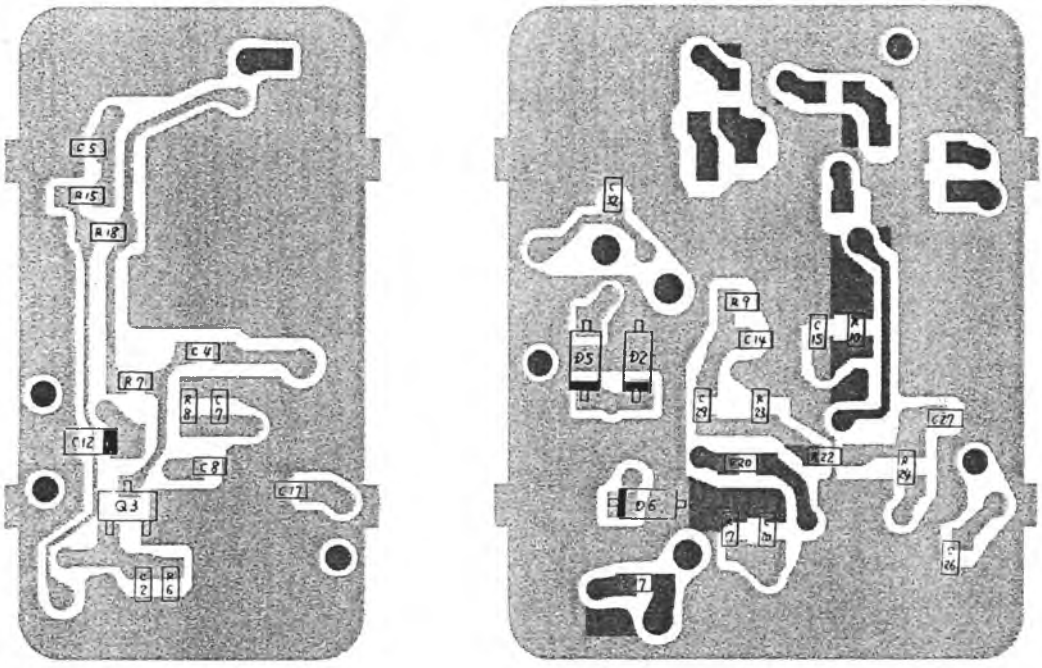


○ UT0019 (×7)





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R7
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C8
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C2
R6
C13
R9
C14
C15
R10
D5
D2
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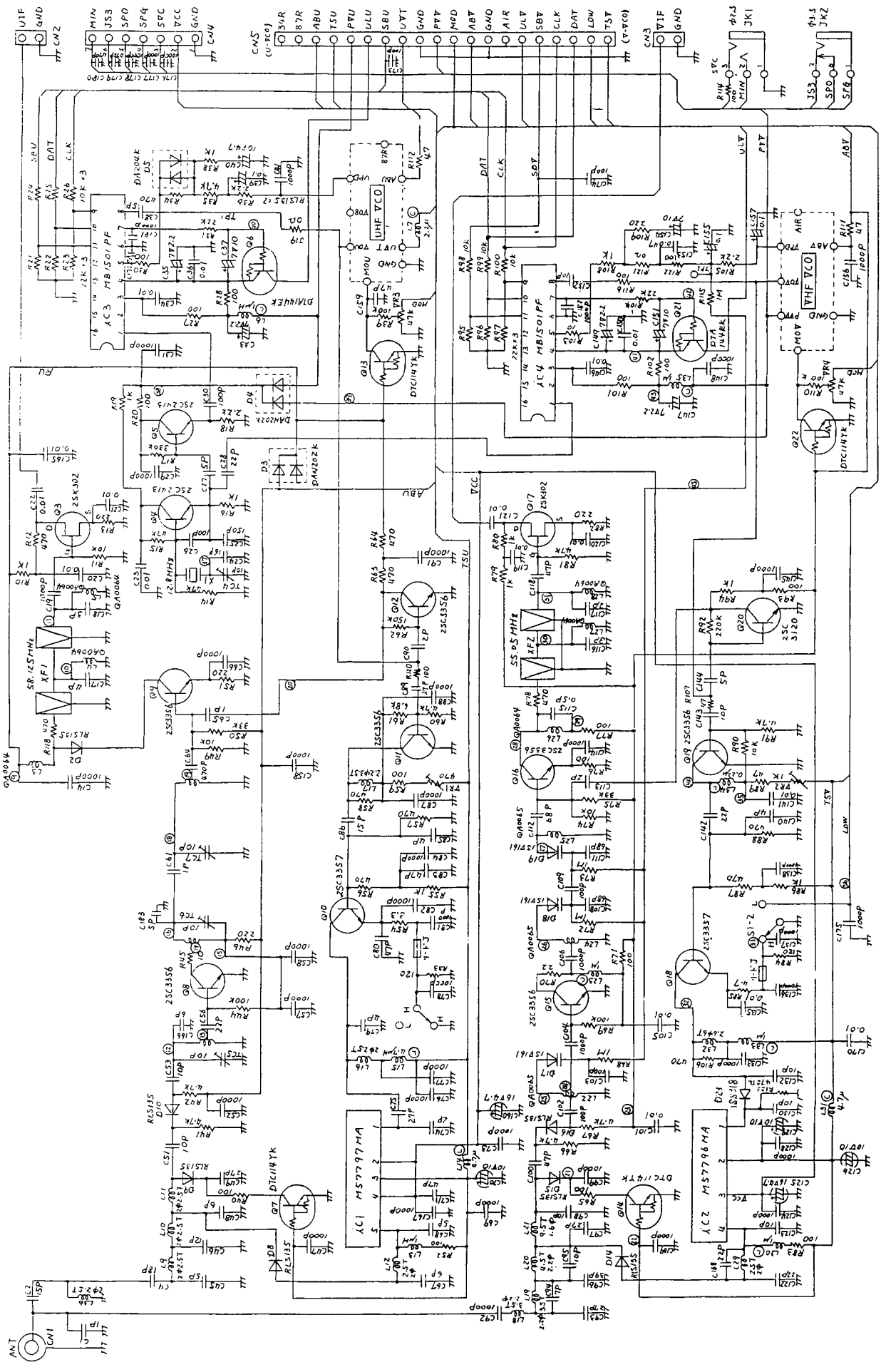
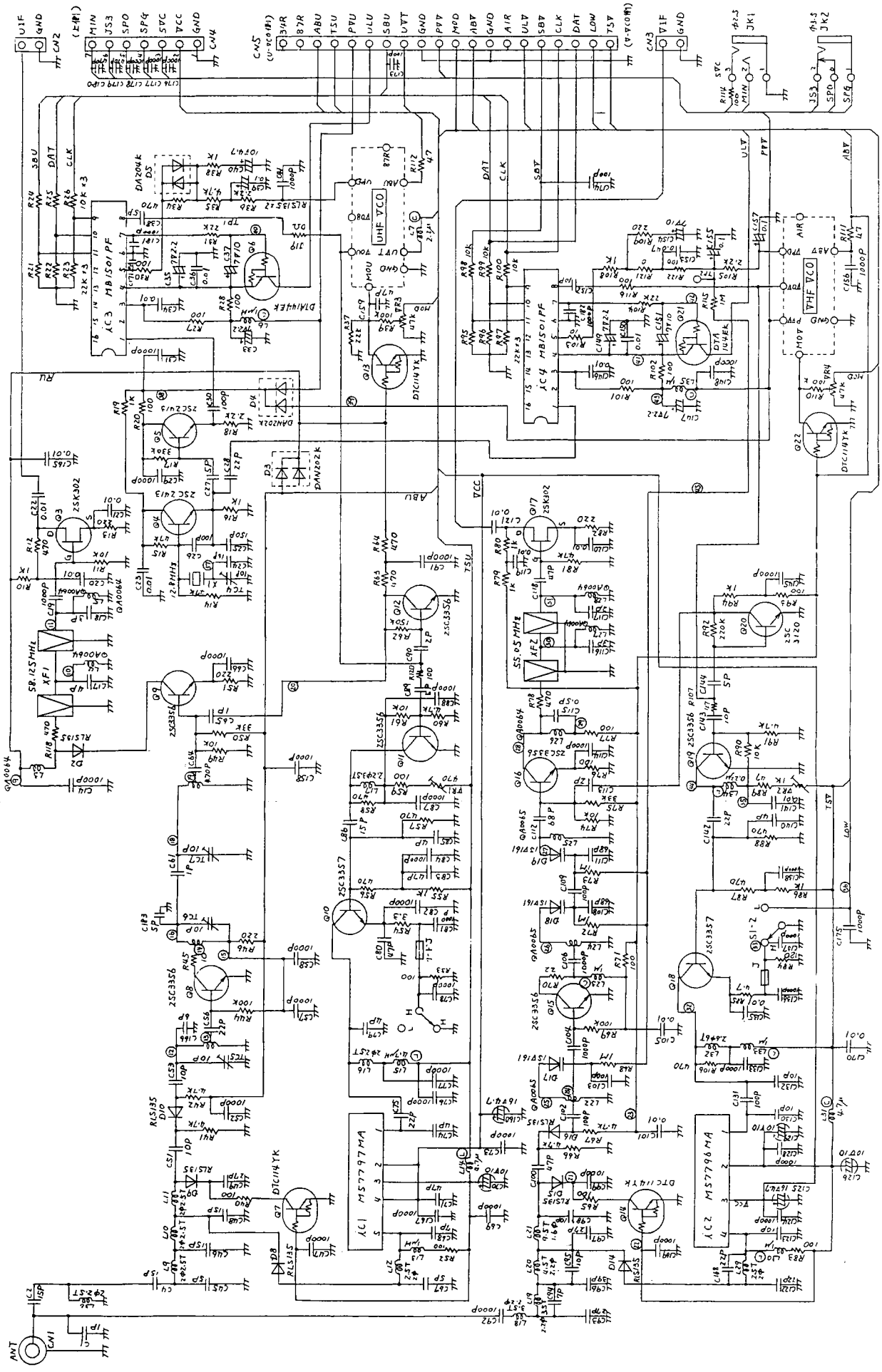
R23
C27
R20
R22
R24
D6
C26

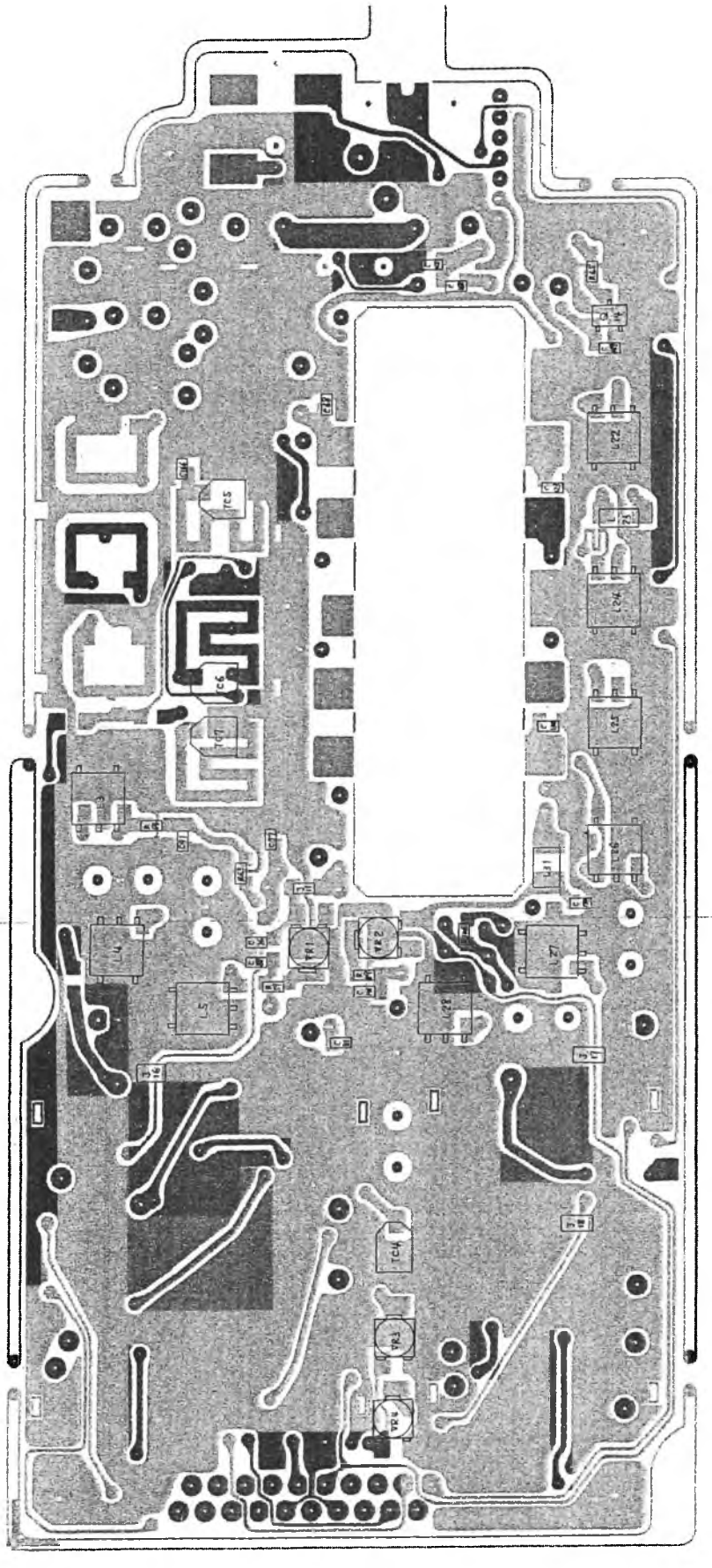
■ SCHEMATIC DIAGRAM OF RF UNIT (DJ-560T)

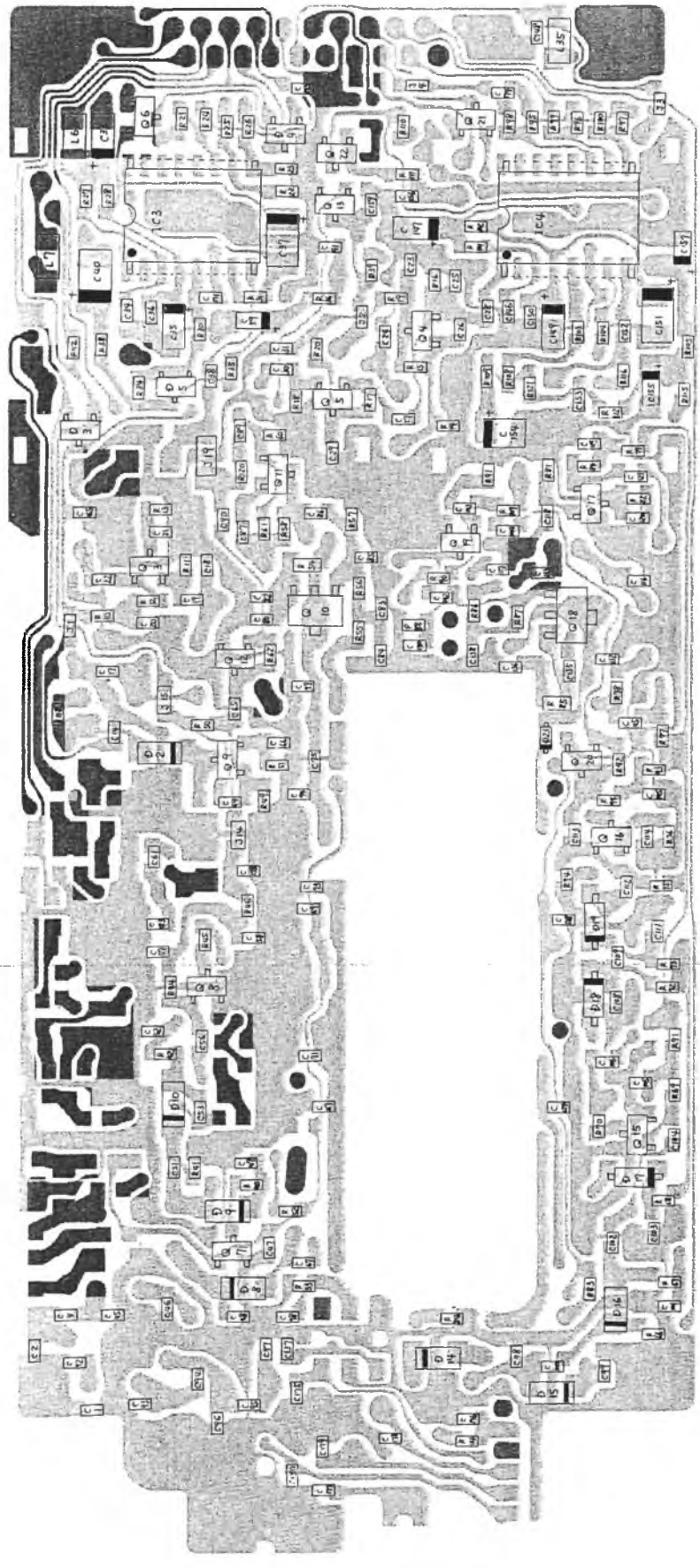


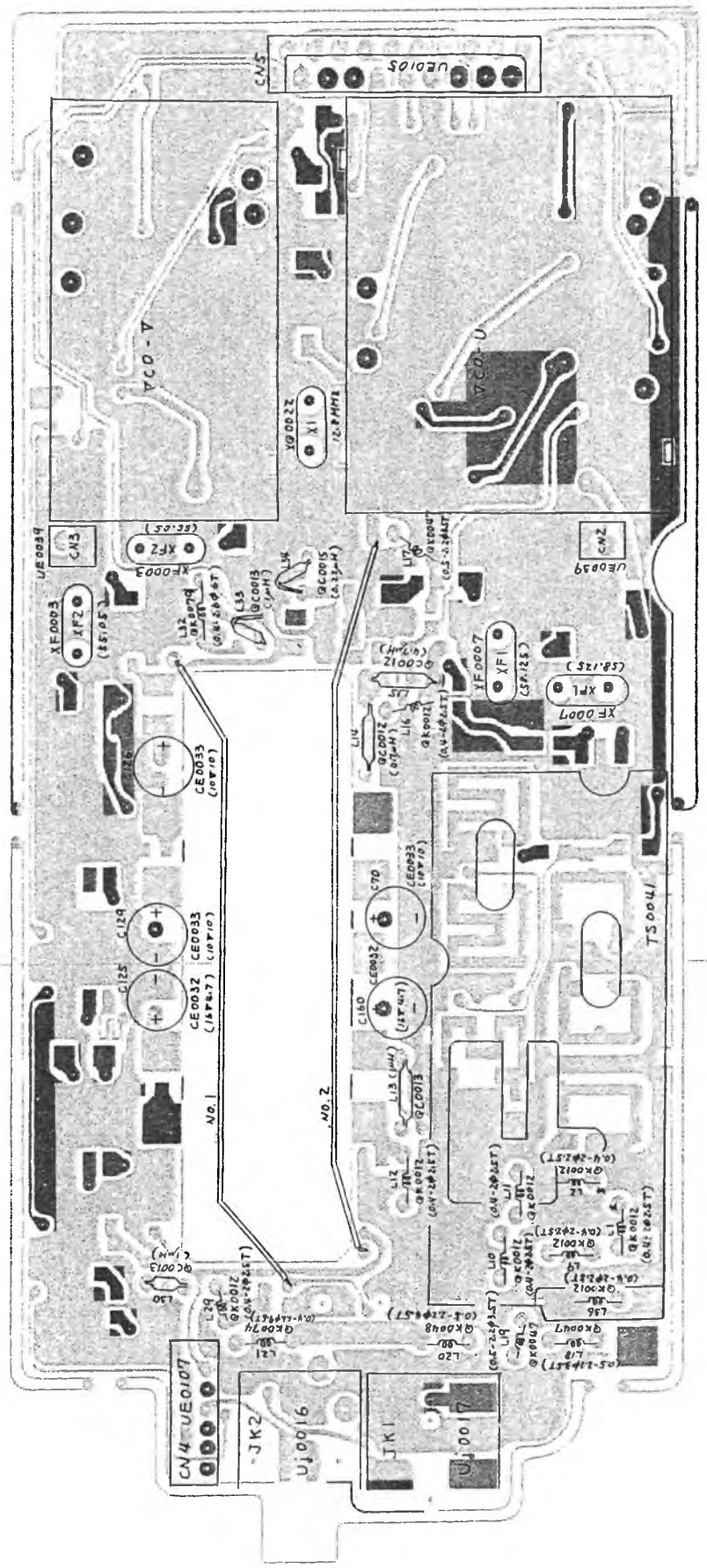
■ SCHEMATIC DIAGRAM OF RF UNIT (DJ-560E)



■ RF PC BOARDS (DJ-560T/E)



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TS0041
CN4 UE0107
JK2
UJ0016
JK1
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NO.1
NO.2